Webster Lake
Aquatic Vegetation Management Plan Update
February 20, 2006

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INTRODUCTION

This report was created in order to update the Webster Lake Aquatic Vegetation Management Plan. The plan update was funded by the Indiana Department of Natural Resources Lake and River Enhancement Program (LARE) and the Webster Lake Conservation Association. The update serves as a tool to track changes in the vegetation community, to adjust the action plan as needed, and to maintain eligibility for additional LARE funds. Items covered include the 2005 sampling results, a review of the 2005 vegetation controls, and updates to the budget and action plans. Once reviewed and approved, the update should be included in the original vegetation management plan, following the reference section and prior to the appendix.

2005 PLANT SAMPLING

Three tier II surveys were completed on Webster and Backwater Lake in order to document the changes in the plant community and determine success or failure of control techniques. Surveys were completed for both lakes on April 15, May 25, and August 2, 2005.

Webster Lake Sampling Results

April Tier II survey, Webster Lake

On April 15, 2005 a Tier II survey was completed on Webster Lake. A Secchi disk reading was taken prior to sampling and was found to be at 7.0 feet. Plants were present to a maximum depth of 10 feet. One hundred and sixty sites were randomly selected within the littoral zone. Results of the sampling are listed in Table 1 and overall aquatic vegetation distribution and density is illustrated in Figure 1 (in species location and density figures, plant location is illustrated by a color coded dot, the color of the dot represents the density of the species and sample sites without that species are illustrated by a smaller white diamond). The bottom half of Table 1 illustrates the frequency of occurrence, relative density, mean density, and dominance index of individual species collected from Webster Lake in April 2005.

Table 1. Occurrence and abundance of submersed aquatic plants in Webster Lake April 15, 2005.

Date:	4/15/2005		Littoral sites with plants:	121		Species diversity:	0.73
Littoral depth (ft):	10		Number of species:	7		Native diversity:	0.63
Littoral sites:	158		Maximum species/site:	4		Rake diversity:	0.72
Total sites:	160		Mean number species/site:	1.28		Native rake diversity:	0.63
Secchi:	7		Mean native species/site:	0.4		Mean rake score:	2.29

Common Name	Site frequency	Relative density	Mean density	Dominance
Curlyleaf pondweed	47.50	0.66	1.38	13.10
Eurasian watermilfoil	40.60	0.83	2.05	16.60
Coontail	20.60	0.33	1.58	6.50
Chara sp.	10.60	0.17	1.59	3.40
Slender naiad	7.50	0.12	1.58	2.40
Elodea	0.60	0.01	2.00	0.30
Flatstem pondweed	0.60	0.01	1.00	0.10

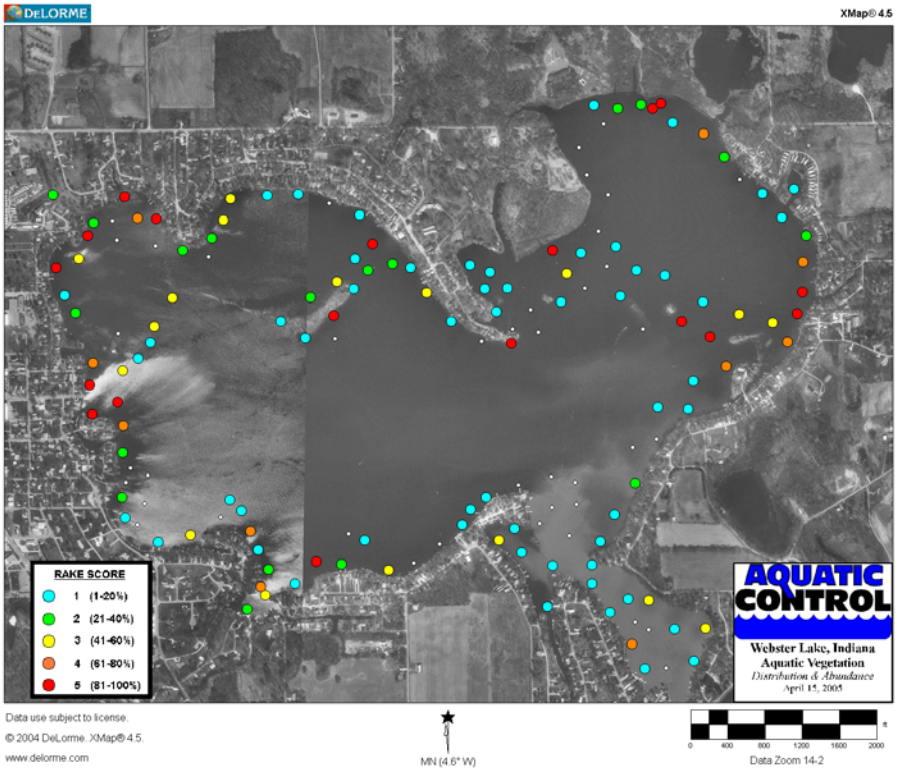


Figure 1. Webster Lake, aquatic vegetation distribution and abundance, April 15, 2005.

A total of 7 species were collected of which two species were exotic, curlyleaf pondweed and Eurasian watermilfoil. Curlyleaf pondweed was present at the highest percentage of sample sites (47%) but ranked second in relative density. Location and density for curlyleaf pondweed is illustrated in Figure 2. Eurasian watermilfoil ranked second in site frequency (40%) but ranked first in relative density (Figure 3). Coontail ranked third in site frequency (20%) and relative density (Figure 4). Chara ranked fourth in site frequency (10%) and relative density followed by slender naiad which ranked fifth in site frequency (7%) and relative density (Figure 5 & 6). Elodea and flatstem pondweed were also present at a lower percentage of sites.

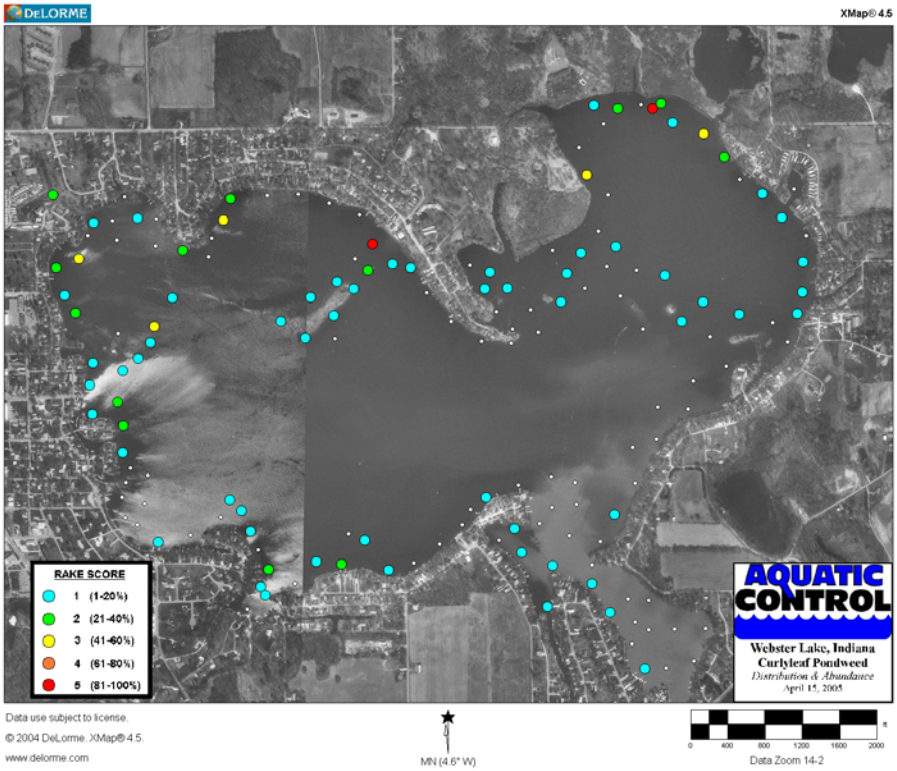


Figure 2. Webster Lake, curlyleaf pondweed distribution and abundance, April 15, 2005.

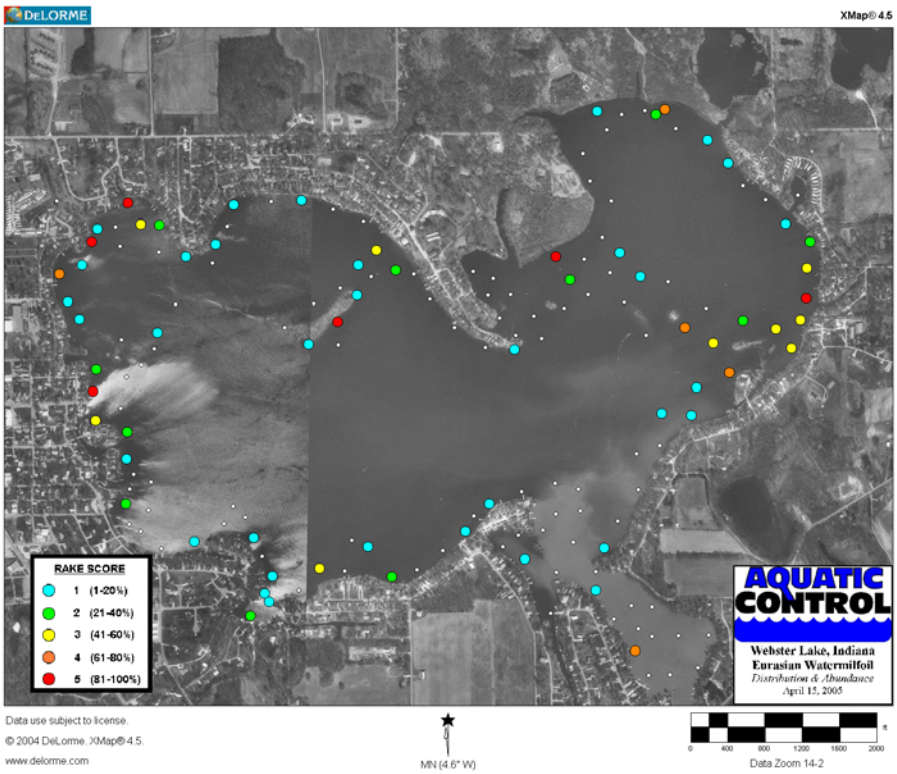


Figure 3. Webster Lake, Eurasian watermilfoil distribution and abundance, April 15, 2005.

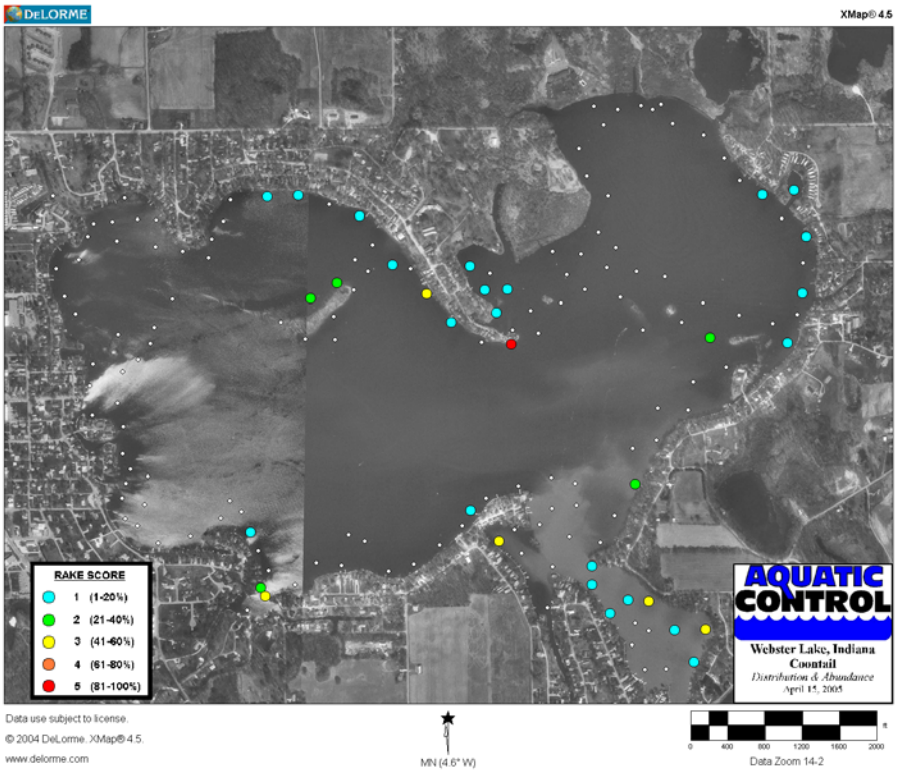


Figure 4. Webster Lake, coontail distribution and abundance, April 15, 2005.

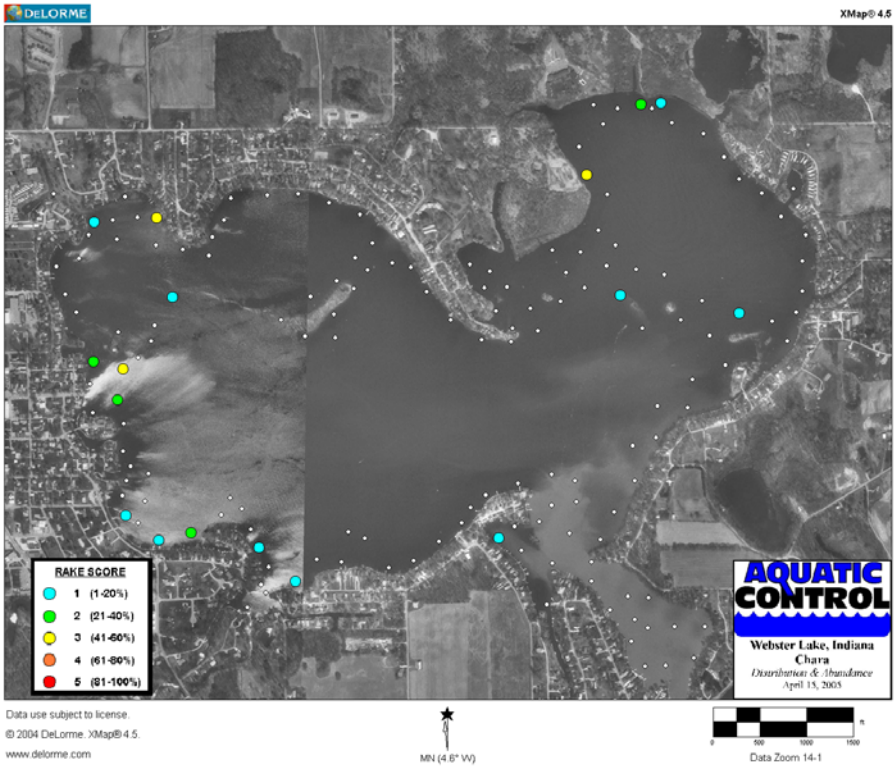


Figure 5. Webster Lake, chara distribution and abundance, April 15, 2005.

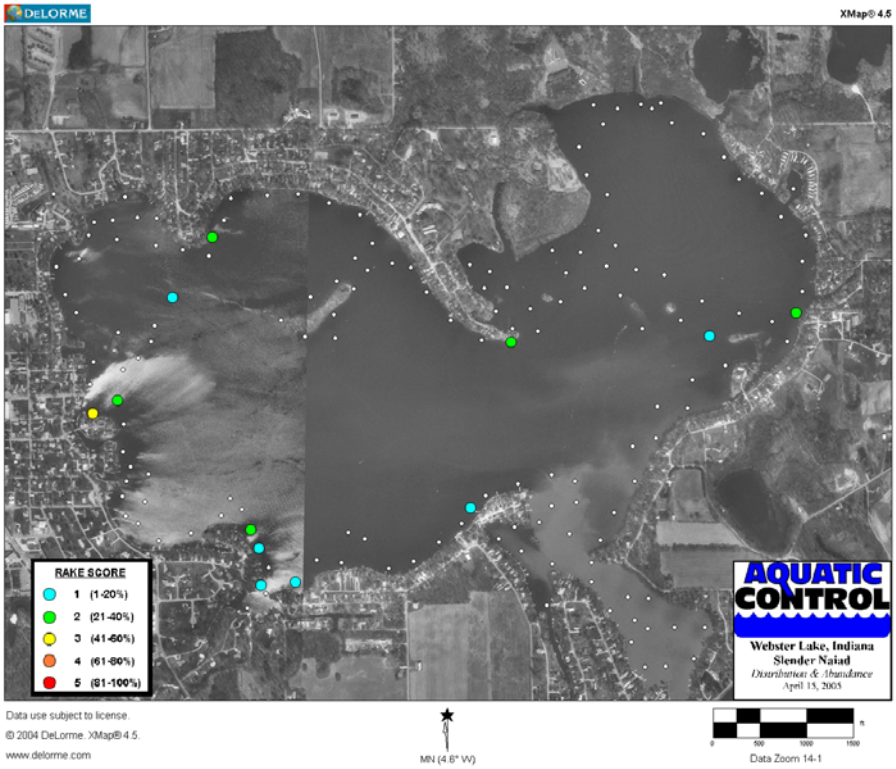


Figure 6. Webster Lake, slender naiad distribution and abundance, April 15, 2005.

May Tier II survey, Webster Lake

The second round of Tier II sampling took place on May 25, 2005. A Secchi disk reading was taken prior to sampling and was found to be 7.0 feet. Plants were present to a maximum of 13 feet. The same one hundred and sixty sites were sampled in May as were in April. Results of the sampling are listed in Table 2. Overall aquatic vegetation distribution and density is illustrated in Figure 7.

Table 2. Occurrence and abundance of submersed aquatic plants in Webster Lake, May 25, 2005.

Date:	5/25/2005		Littoral sites with plants:	147		Species diversity:	0.79
Littoral depth (ft):	13		Number of species:	13		Native diversity:	0.74
Littoral sites:	159		Maximum species/site:	5		Rake diversity:	0.72
Total sites:	160		Mean number species/site:	1.93		Native rake diversity:	0.73
Secchi:	12		Mean native species/site:	0.90		Mean rake score:	3.42

Common Name	Site frequency	Relative density	Mean density	Dominance
Curlyleaf pondweed	65.60	2.01	3.06	40.10
Coontail	41.90	0.78	1.85	15.50
Eurasian watermilfoil	36.90	0.57	1.54	11.40
Chara sp.	10.60	0.33	3.06	6.50
Flatstem pondweed	10.00	0.10	1.00	2.00
Slender naiad	8.80	0.21	2.43	4.30
Horned pondweed	4.40	0.05	1.14	1.00
Northern watermilfoil	4.40	0.07	1.57	1.40
Elodea	4.40	0.08	1.71	1.50
Largeleaf pondweed	2.50	0.04	1.50	0.80
Sago pondweed	1.90	0.02	1.00	0.40
Eel grass	0.60	0.01	1.00	0.10
Water stargrass	0.60	0.02	3.00	0.40

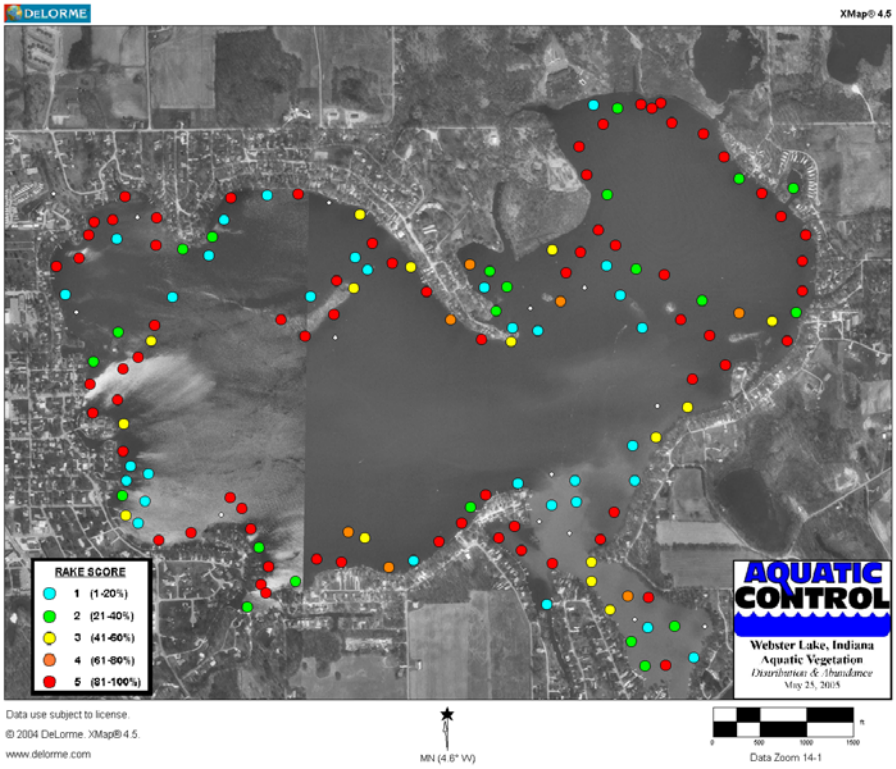


Figure 7. Webster Lake, overall aquatic vegetation distribution and density, May 25, 2005.

A total of 13 species were collected of which 11 of the species were native. Eurasian watermilfoil and curlyleaf pondweed were the only exotic species collected. Curlyleaf pondweed was present at the highest percentage of sample sites (65%) and also had the highest relative density (Figure 8). Coontail ranked second in site frequency (41%), and relative density (Figure 9), followed by Eurasian watermilfoil (Figure 10). Chara ranked fourth in site frequency (10%) and relative density (Figure 11). Flatstem pondweed ranked fifth in overall site frequency (10%) but ranked sixth in relative density. Slender naiad ranked sixth in overall site frequency (8%) but ranked fifth in relative density (Figure 12). Horned pondweed, northern watermilfoil, elodea, largeleaf pondweed, sago pondweed, eel grass, and water stargrass were all present but at a lower frequency and density.

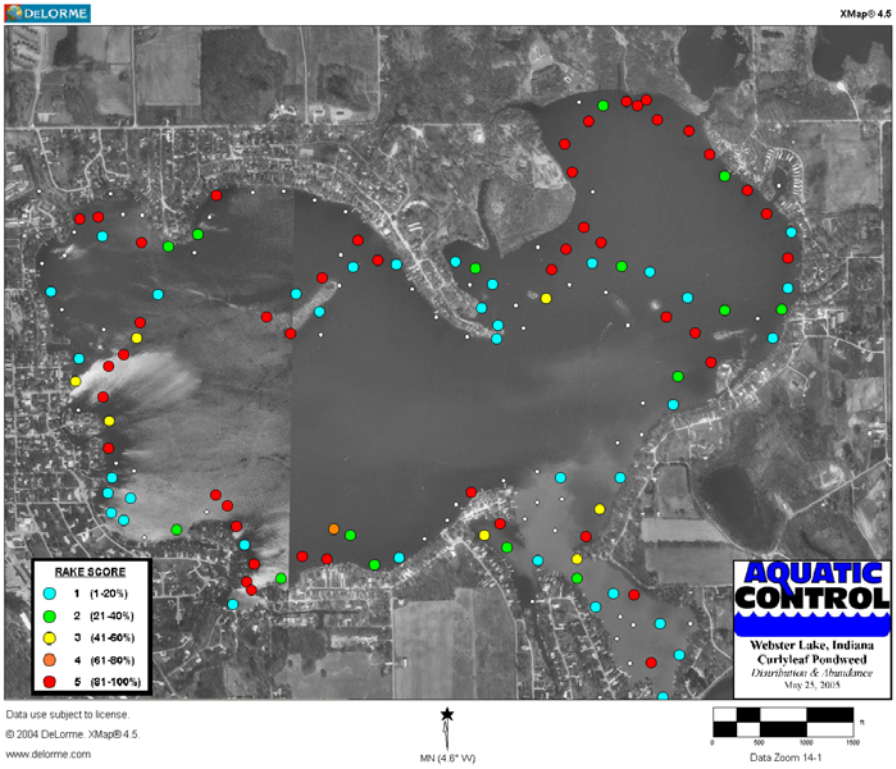


Figure 8. Webster Lake, curlyleaf pondweed distribution and abundance, May 25, 2005.

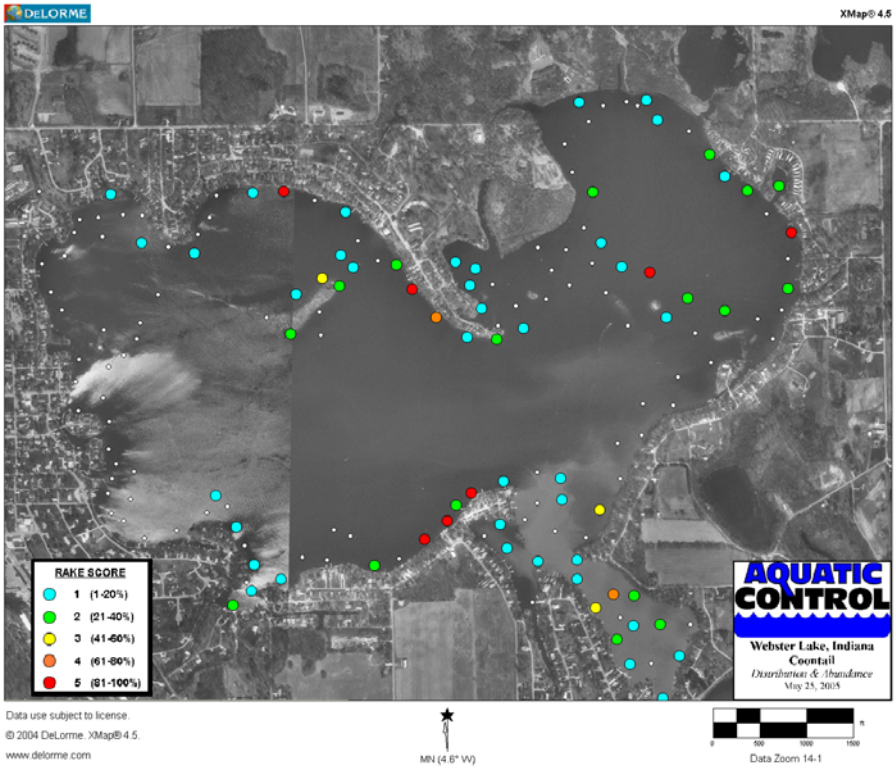


Figure 9. Webster Lake, coontail distribution and abundance, May 25, 2005.

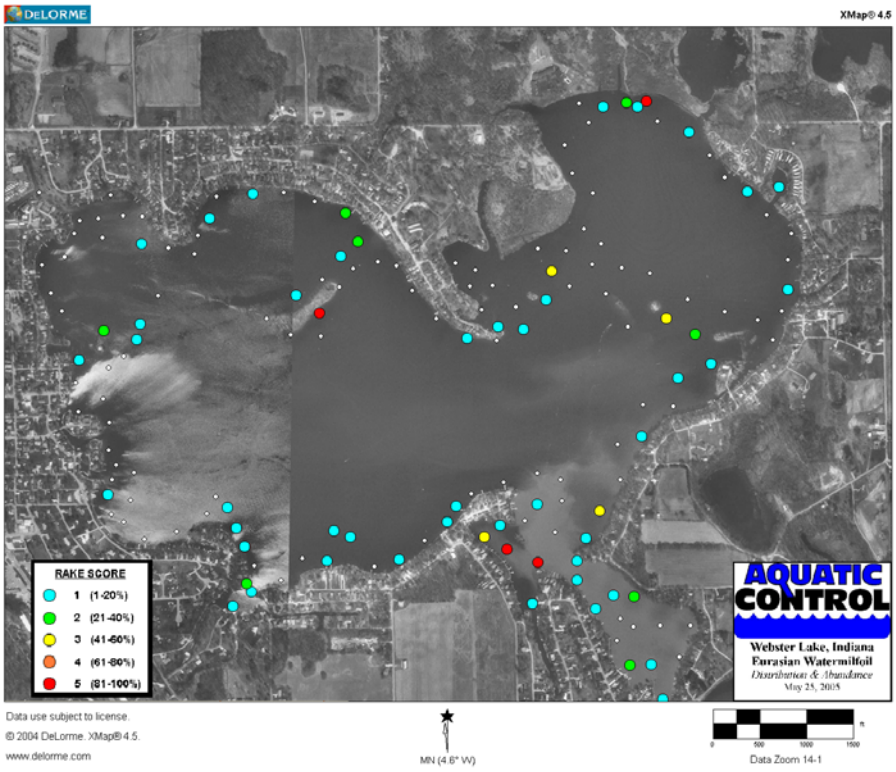


Figure 10. Webster Lake, Eurasian watermilfoil distribution and abundance, May 25, 2005.

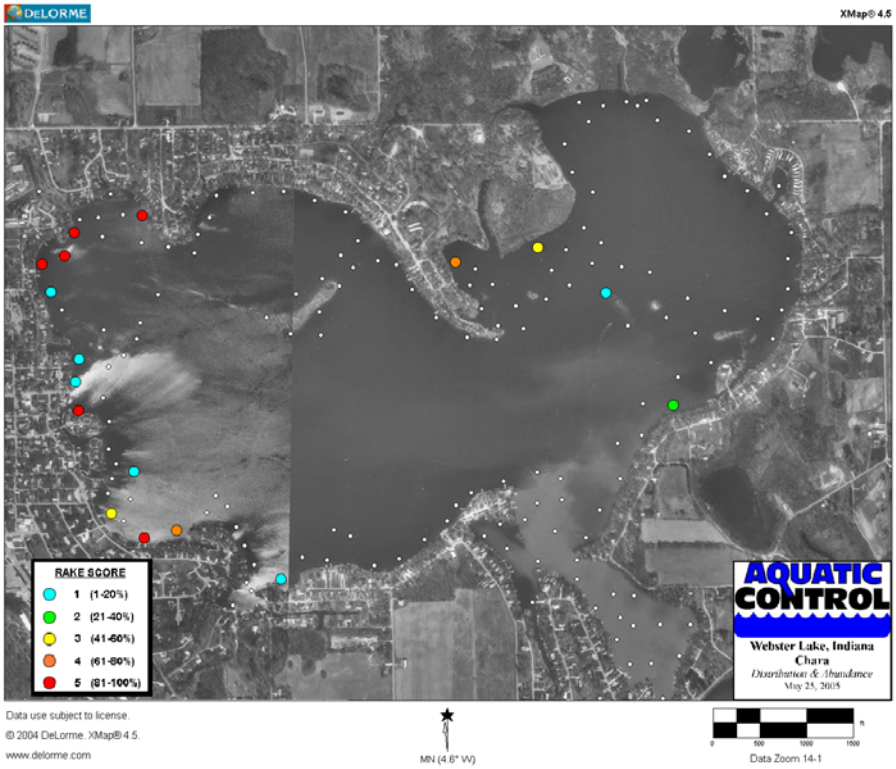


Figure 11. Webster Lake, chara distribution and abundance, May 25, 2005.

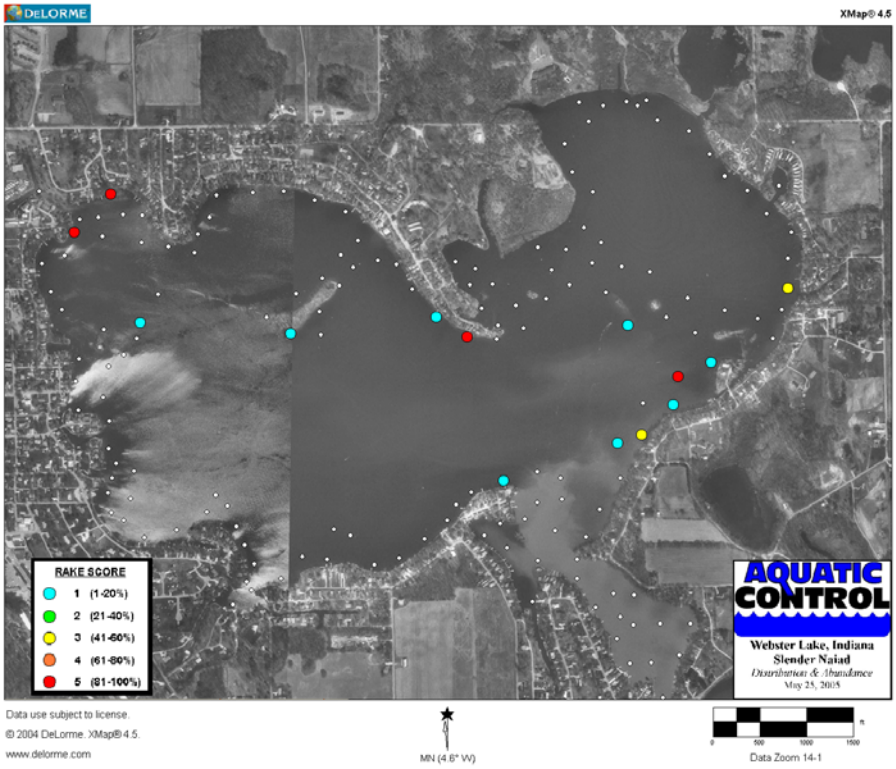


Figure 12. Webster Lake, slender naiad distribution and abundance, May 25, 2005.

August Tier II survey, Webster Lake

The third round of Tier II sampling took place on August 2, 2005. A Secchi disk reading was taken prior to sampling and was found to be 8.0 feet. Plants were present to a maximum of 14 feet. The same one hundred and sixty sites were sampled in August as were in April and May. Results of the sampling are listed in Table 3. Overall aquatic vegetation distribution and density is illustrated in Figure 13.

Table 3. Occurrence and abundance of submersed aquatic plants in Webster Lake, August 2, 2005.

Date:	8/2/2005		Littoral sites with plants:	146		Species diversity:	0.80
Littoral depth (ft):	14		Number of species:	15		Native diversity:	0.74
Littoral sites:	160		Maximum species/site:	5		Rake diversity:	0.74
Total sites:	160		Mean number species/site:	1.74		Native rake diversity:	0.70
Secchi:	8		Mean native species/site:	1.48		Mean rake score:	3.05

Common Name	Site frequency	Relative density	Mean density	Dominance
Coontail	66.30	1.69	2.55	33.80
Slender naiad	28.80	0.82	2.85	16.40
Curlyleaf pondweed	20.00	0.27	1.34	5.40
Chara sp.	13.80	0.33	2.41	6.60
Flatstem pondweed	9.40	0.20	2.13	4.00
Water stargrass	8.80	0.14	1.57	2.80
Sago pondweed	7.50	0.11	1.50	2.30
Eurasian watermilfoil	6.30	0.06	1.00	1.30
Northern watermilfoil	5.00	0.06	1.13	1.10
Largeleaf pondweed	3.10	0.06	1.80	1.10
Small pondweed	3.10	0.06	1.80	1.10
Spiny naiad	1.30	0.04	3.00	0.80
Elodea	0.60	0.01	1.00	0.10
Bladderwort	0.60	0.01	1.00	0.10
Nitella sp.	0.60	0.01	1.00	0.10

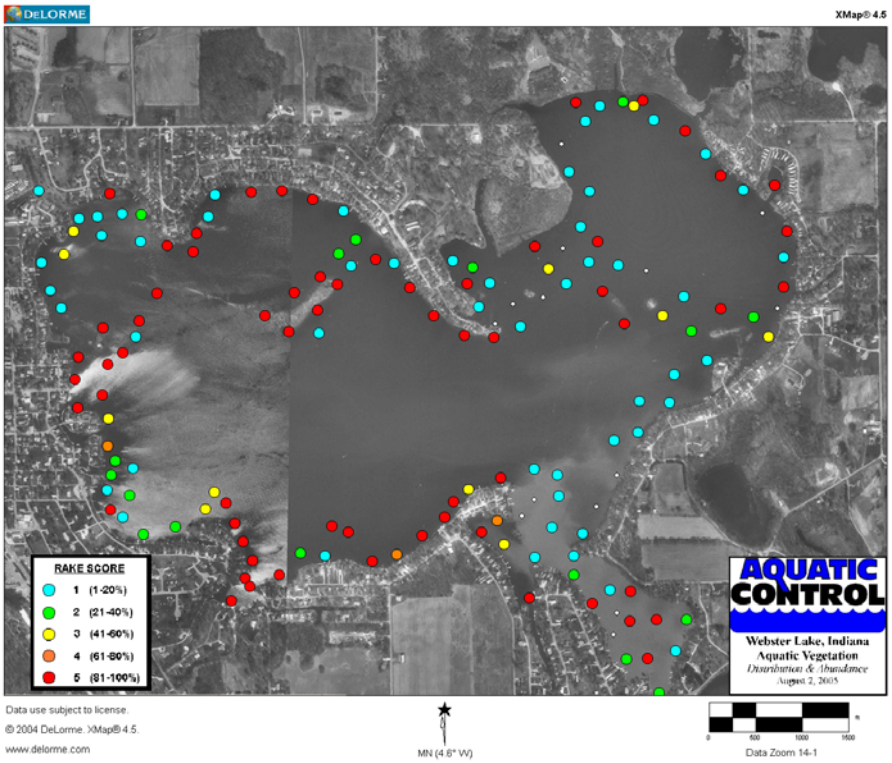


Figure 13. Webster Lake, overall aquatic vegetation distribution and density, August 2, 2005

A total of 15 species were collected of which 13 of the species were native. Eurasian watermilfoil and curlyleaf pondweed were the only exotic species collected. Coontail was present at the highest percentage of sample sites (66%) and also had the highest relative density (Figure 14). Slender naiad ranked second in site frequency (28%) and relative density (Figure 15). Curlyleaf pondweed ranked third in site frequency (20%) but ranked fourth in relative density (Figure 16). Chara ranked fourth in site frequency (13%) but ranked third in relative density (Figure 17). Flatstem pondweed ranked fifth in site frequency (9%) and relative density. Water stargrass ranked sixth in site frequency (8%) and relative density followed by sago pondweed. Eurasian watermilfoil ranked eighth in site frequency (6%). Location and density of Eurasian watermilfoil is illustrated in Figure 18. Northern watermilfoil, largeleaf pondweed, small pondweed, spiny naiad, elodea, bladderwort, and nitella were also present at lower site frequencies and relative densities.

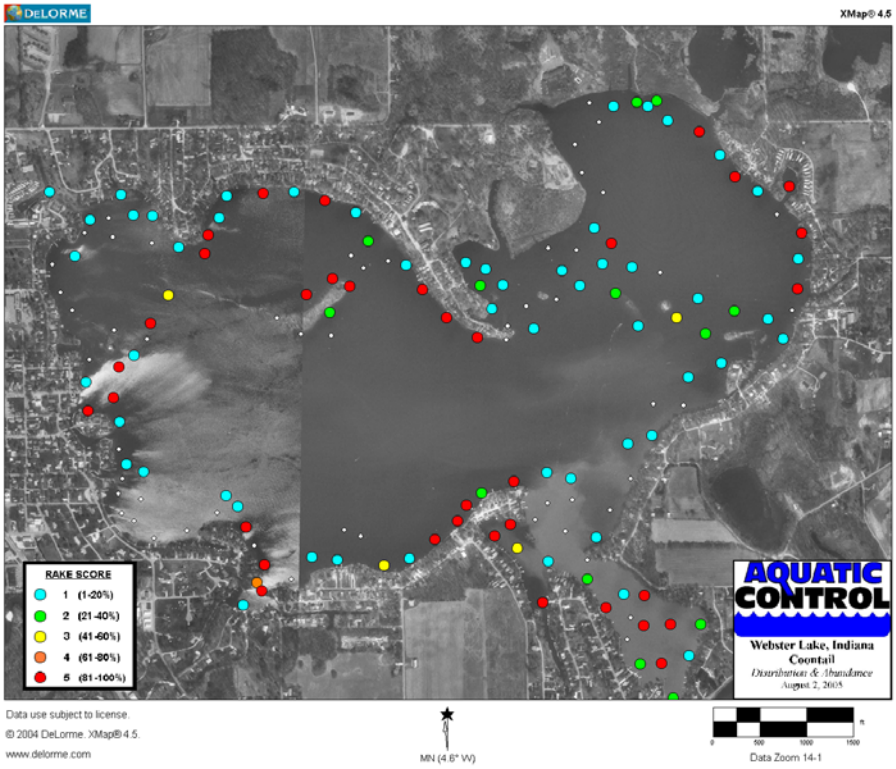


Figure 14. Webster Lake, coontail distribution and abundance, August 2, 2005

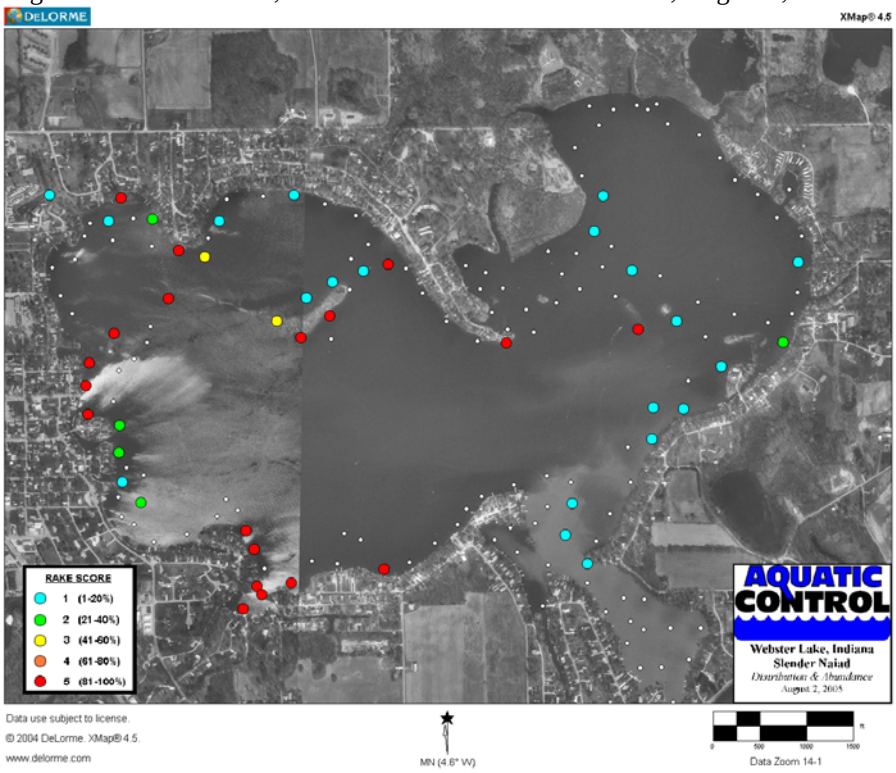


Figure 15. Webster Lake, slender naiad distribution and abundance, August 2, 2005

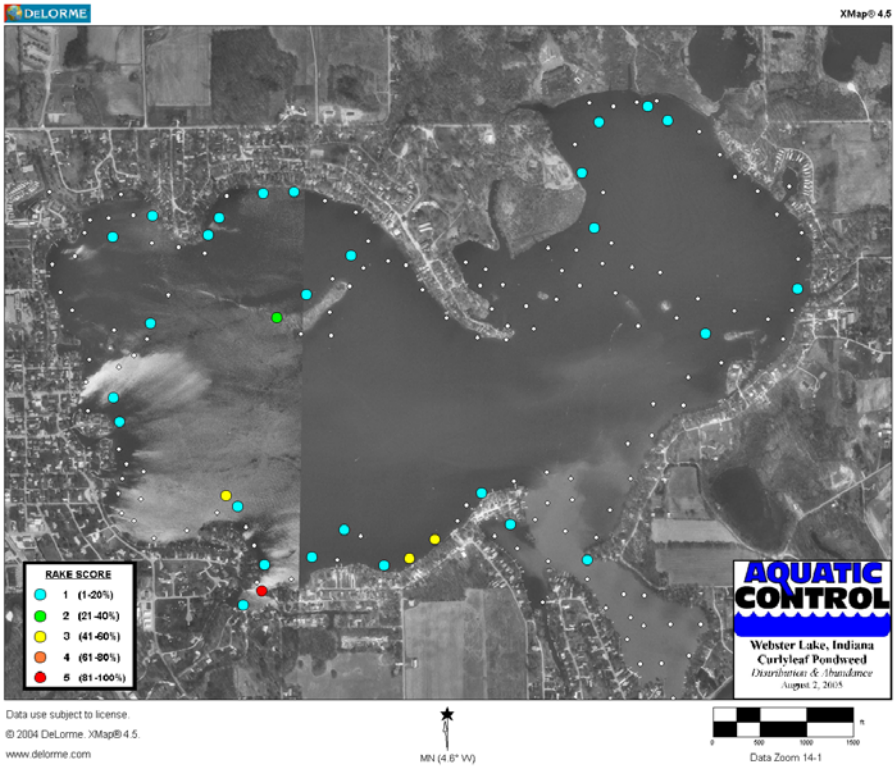


Figure 16. Webster Lake, curlyleaf pondweed distribution and abundance, August 2, 2005

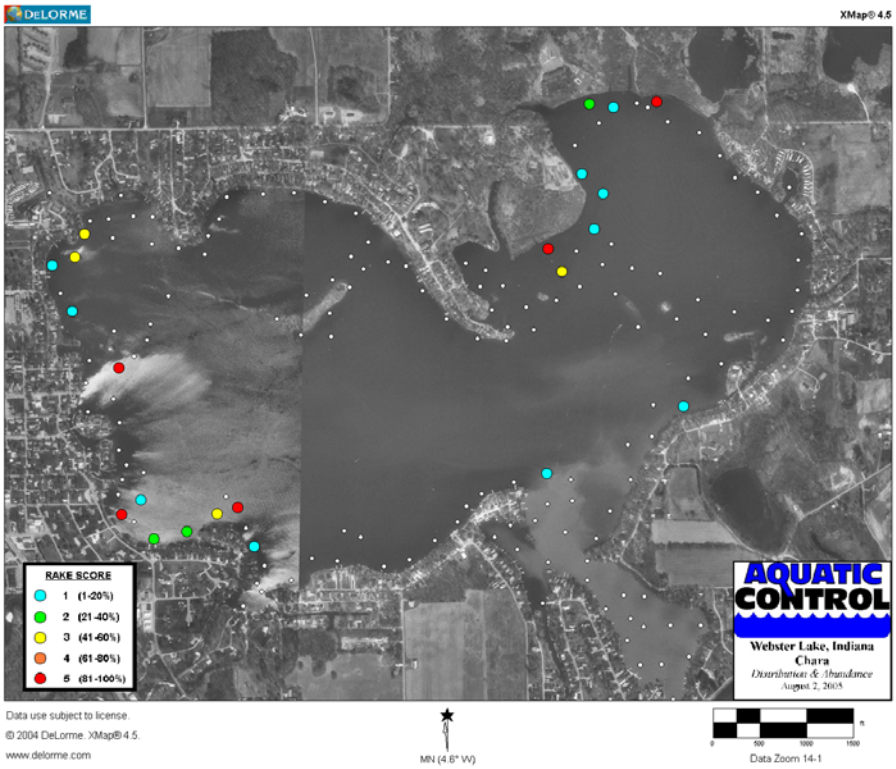


Figure 17. Webster Lake, chara distribution and abundance, August 2, 2005

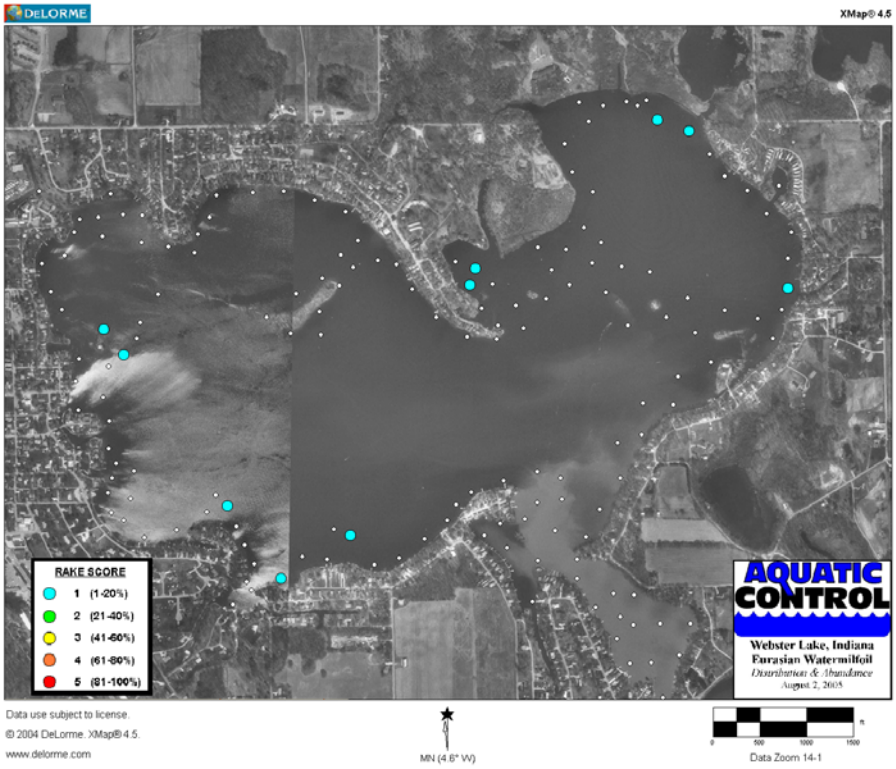


Figure 18. Webster Lake, Eurasian watermilfoil distribution and abundance, August 2, 2005

Backwater Lake Sampling Results

April Tier II survey, Backwater Lake

On April 15, 2005 a Tier II survey was completed on Backwater Lake. A Secchi disk reading was taken prior to sampling and was found to be at 2.5 feet. Plants were present to a maximum depth of 5 feet. Forty-two sites were randomly selected within the littoral zone. Results of the sampling are listed in Table 4. Overall aquatic vegetation distribution and density is illustrated in Figure 19.

Table 4. Occurrence and abundance of submersed aquatic plants in Backwater Lake April 15, 2005.

Date:	4/15/2005		Littoral sites with plants:	35		Species diversity:	0.61
Littoral depth (ft):	5		Number of species:	3		Native diversity:	0.00
Littoral sites:	42		Maximum species/site:	3		Rake diversity:	0.52
Total sites:	42		Mean number species/site:	1.17		Native rake diversity:	0.00
Secchi:	2.5		Mean native species/site:	0.62		Mean rake score:	2.03

Common Name	Site frequency	Relative density	Mean density	Dominance
Coontail	61.90	1.26	2.04	25.20
Eurasian watermilfoil	28.60	0.45	1.58	9.00
Curlyleaf pondweed	26.20	0.26	1.00	5.20

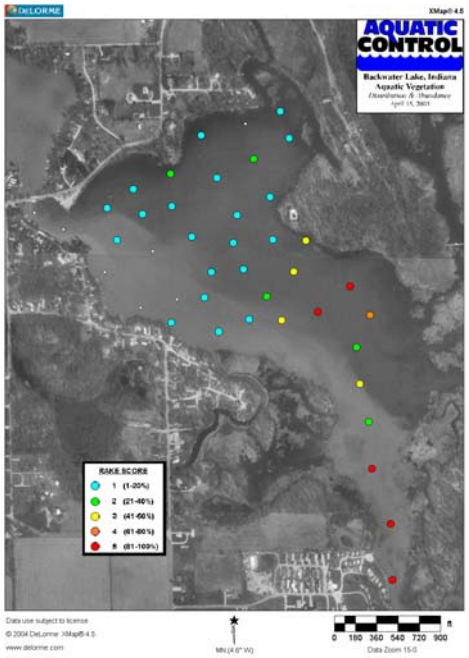


Figure 19. Backwater Lake, overall aquatic vegetation distribution and density, April 15, 2005

A total of 3 species were collected of which two were exotics, curlyleaf pondweed and Eurasian watermilfoil. Coontail was present at the highest percentage of sample sites (61%) and relative density. Location and density of coontail is illustrated in Figure 20. Eurasian watermilfoil was ranked second in site frequency (28%) and relative density (Figure 21). Curlyleaf pondweed was ranked last in site frequency (26%) and relative density (Figure 22).

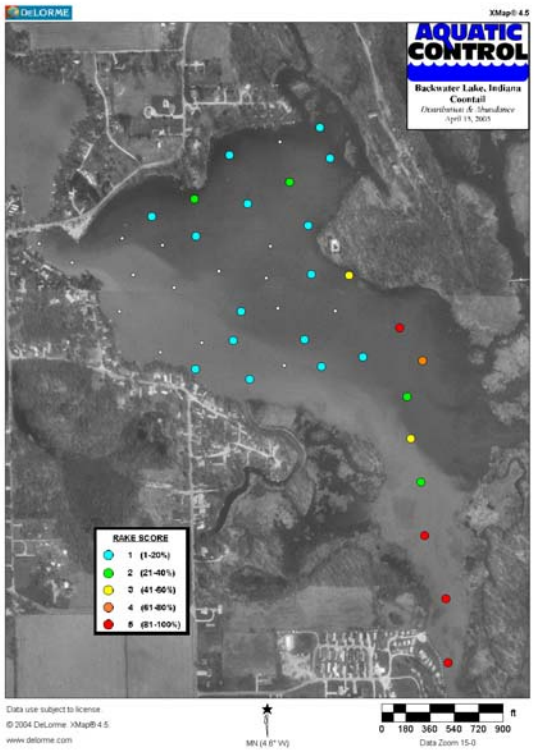


Figure 20. Backwater Lake, coontail distribution and abundance, April 15, 2005

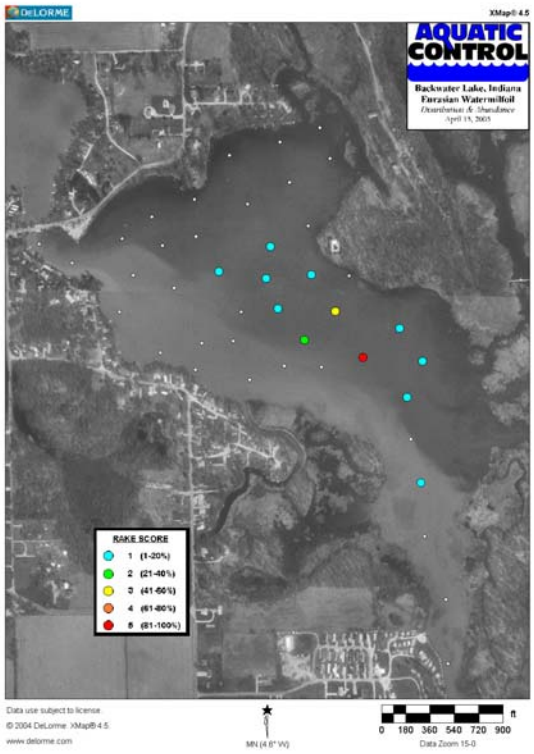


Figure 21. Backwater Lake, Eurasian watermilfoil distribution and abundance, April 15, 2005

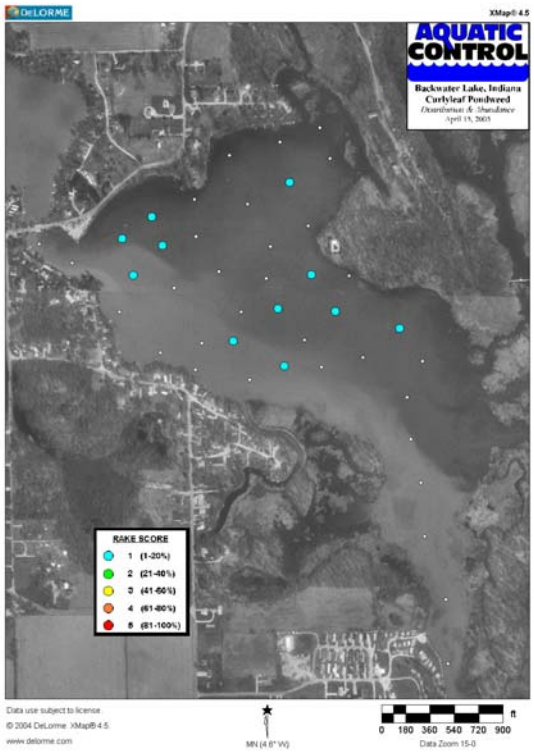


Figure 22. Backwater Lake, curlyleaf pondweed distribution and abundance, April 15, 2005

May Tier II survey, Backwater Lake

On May 25, 2005 a second Tier II survey was completed on Backwater Lake. A Secchi disk reading was taken prior to sampling and was found to be 4.0 feet. Plants were present to a maximum depth of 6 feet. The same forty-two sites were sampled in May as in the April 2005 survey. Results of the sampling are listed in Table 5. Overall aquatic vegetation distribution and density is illustrated in Figure 23.

Table 5. Occurrence and abundance of submersed aquatic plants in Backwater Lake May 25, 2005.

Date:	5/25/2005		Littoral sites with plants:	39		Species diversity:	0.63
Littoral depth (ft):	6		Number of species:	4		Native diversity:	0.06
Littoral sites:	42		Maximum species/site:	3		Rake diversity:	0.65
Total sites:	42		Mean number species/site:	1.50		Native rake diversity:	0.04
Secchi:	4		Mean native species/site:	0.79		Mean rake score:	2.26

Common Name	Site frequency	Relative density	Mean density	Dominance
Coontail	76.20	1.26	1.66	25.20
Curlyleaf pondweed	40.50	0.64	1.59	12.90
Eurasian watermilfoil	31.00	0.95	3.08	19.00

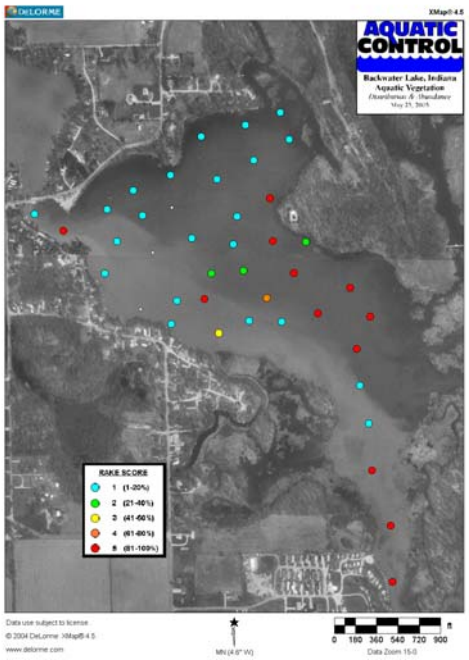


Figure 23. Backwater Lake, overall aquatic vegetation distribution and density, May 25, 2005

A total of 3 species were collected of which two species were exotics, curlyleaf pondweed and Eurasian watermilfoil. Coontail was present at the highest percentage of sample sites (76%) and had the highest relative density. Location and density of coontail is illustrated in Figure 24. Curlyleaf pondweed ranked second in site frequency (40%) but ranked third in relative density (Figure 25). Eurasian watermilfoil ranked third in site frequency (31%) but ranked second in relative density. Location and density of Eurasian watermilfoil is illustrated in Figure 26.

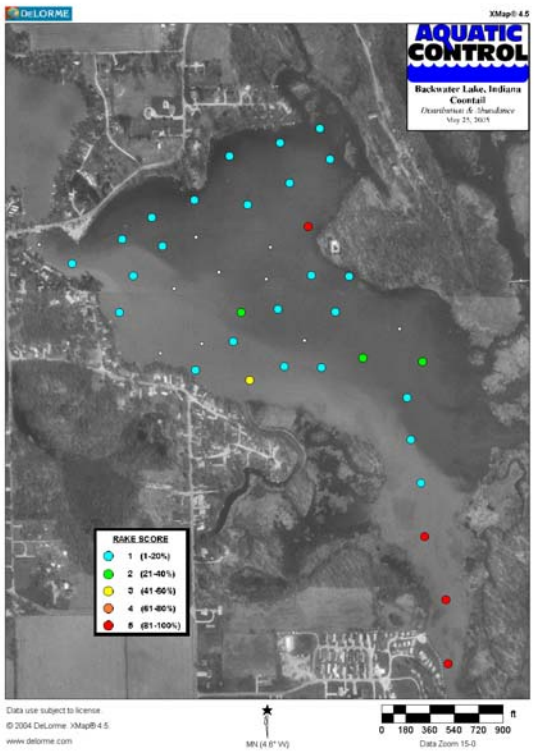


Figure 24. Backwater Lake, coontail distribution and abundance, May 25, 2005

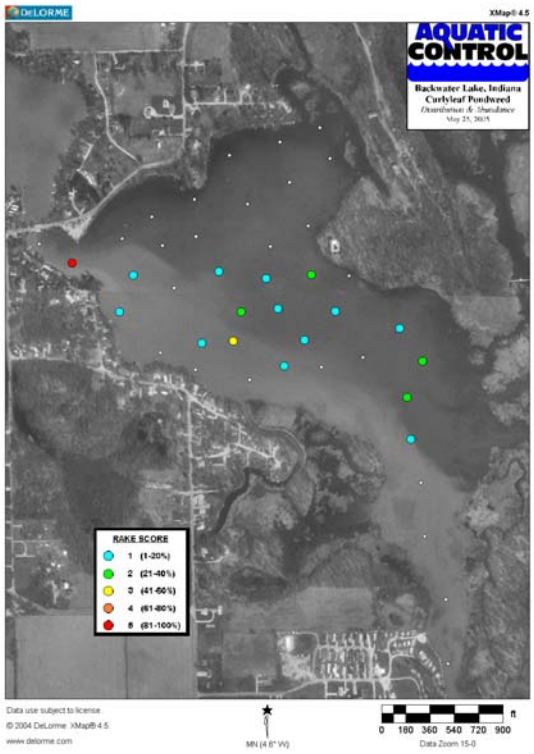


Figure 25. Backwater Lake, curlyleaf pondweed distribution and abundance, May 25, 2005

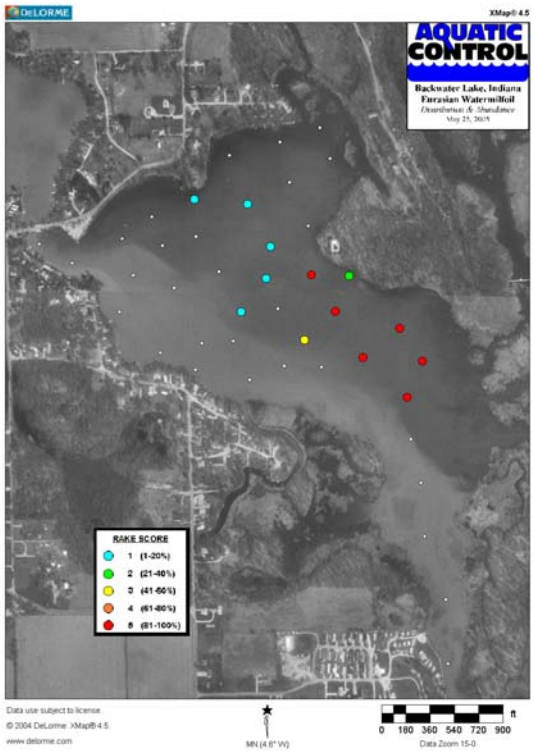


Figure 26. Backwater Lake, Eurasian watermilfoil distribution and abundance, May 25, 2005

August Tier II survey, Backwater Lake

On August 2, 2005 a third Tier II survey was completed on Backwater Lake. A Secchi disk reading was taken prior to sampling and was found to be 2.5 feet. Plants were present to a maximum depth of 6 feet. The same forty-two sites were sampled in August as in the April and May surveys. Results of the sampling are listed in Table 6. Overall aquatic vegetation distribution and density is illustrated in Figure 27.

Table 6. Occurrence and abundance of submersed aquatic plants in Backwater Lake August 2, 2005.

Date:	8/2/2005		Littoral sites with plants:	42		Species diversity:	0.56
Littoral depth (ft):	6		Number of species:	8		Native diversity:	0.26
Littoral sites:	42		Maximum species/site:	4		Rake diversity:	0.38
Total sites:	42		Mean number species/site:	1.55		Native rake diversity:	0.12
Secchi:	2.5		Mean native species/site:	1.12		Mean rake score:	3.50

Common Name	Site frequency	Relative density	Mean density	Dominance
Coontail	97.60	3.12	3.20	62.40
Eurasian watermilfoil	33.30	0.62	1.86	12.40
Curlyleaf pondweed	9.50	0.10	1.00	1.90
Sago pondweed	7.10	0.12	1.67	2.40
Slender naiad	2.40	0.02	1.00	0.50
Bladderwort	2.40	0.02	1.00	0.50
Flatstem pondweed	2.40	0.02	1.00	0.50
Nitella sp.	2.40	0.02	1.00	0.50

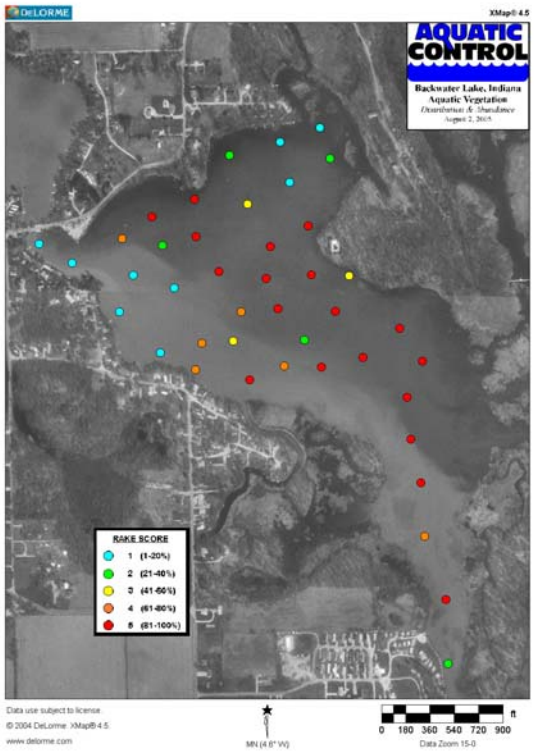


Figure 27. Backwater Lake, overall aquatic vegetation distribution and density, August 2, 2005

A total of 8 species were collected of which two species were exotic, curlyleaf pondweed and Eurasian watermilfoil. Coontail was present at the highest percentage of sample sites (97%) and had the highest relative density (Figure 28). Eurasian watermilfoil ranked second in site frequency (33%) and relative density (Figure 29). Curlyleaf pondweed ranked third in site frequency (9%) but ranked fourth in relative density (Figure 30). Sago pondweed, slender naiad, bladderwort, flatstem pondweed, and nitella were all present at a lower abundance and density.

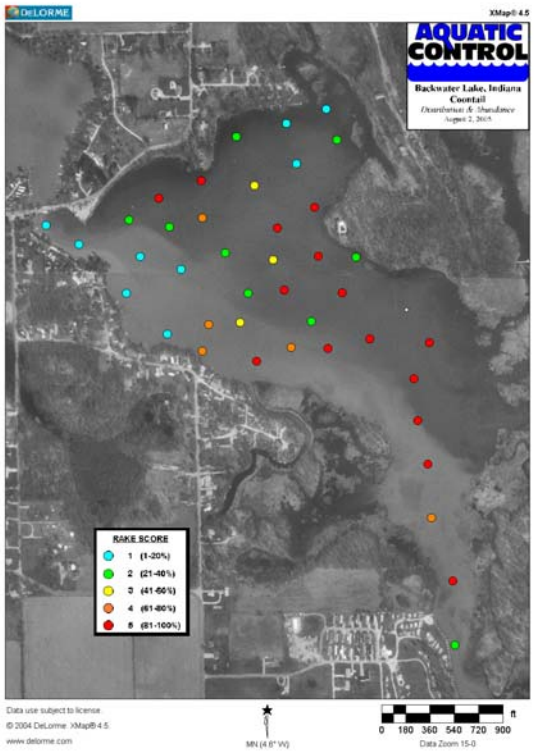


Figure 28. Backwater Lake, coontail distribution and abundance, August 2, 2005

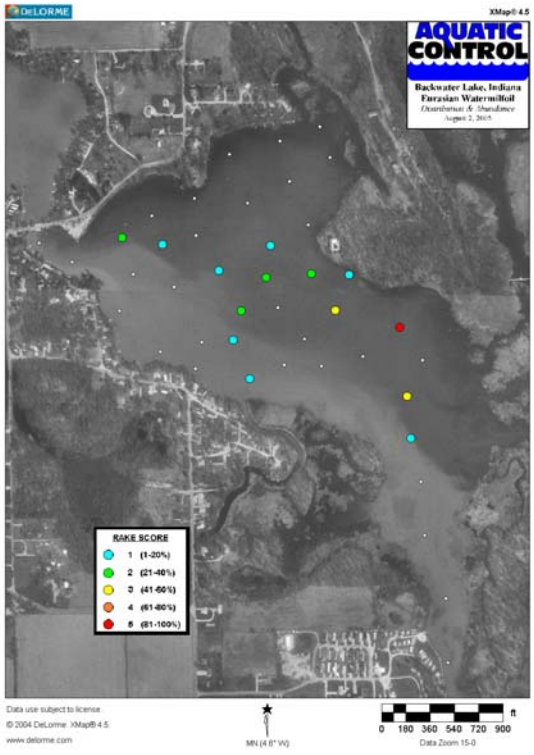


Figure 29. Backwater Lake, Eurasian watermilfoil distribution and abundance, August 2, 2005

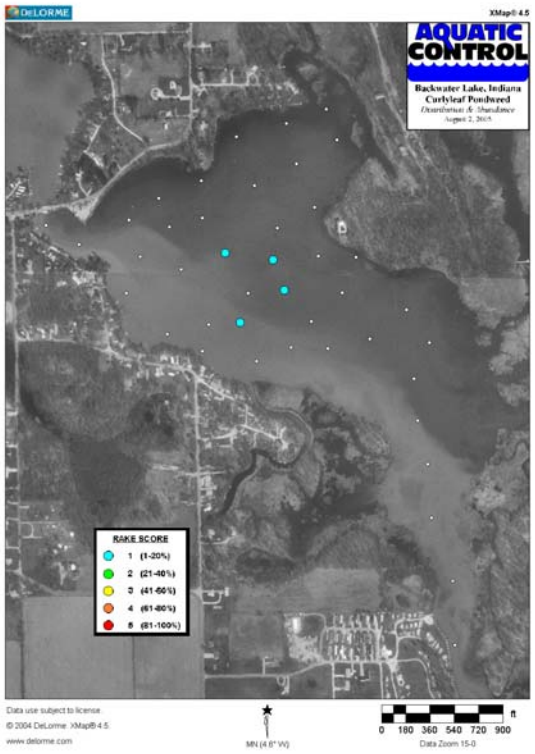


Figure 30. Backwater Lake, curlyleaf pondweed distribution and abundance, August 2, 2005

Plant Sampling Discussion

Backwater Lake was sampled along with Webster Lake due to the belief that the Eurasian watermilfoil was originating in Backwater. Due to the differences in the two ecosystems we sampled them separately and will discuss the sampling results separately.

Webster Lake Sampling Discussion

The goal of the 2005 management actions was to decrease the abundance and density of nuisance exotic vegetation and increase the abundance and density of native vegetation. This season's sampling results indicated that native vegetation had improved when compared to past surveys. A larger percentage of sample sites had vegetation, more native species were collected, and there were increases in native species richness and mean rake density by the August survey (Figures 31-34). Several of the figures show a decrease in these metrics during the April 2005 survey. This was expected since most native aquatic plants are not actively growing at this time. The most informative data can be gleaned by comparing the 2003, 2004, and the August 2005 data because these surveys were all completed in the late summer.

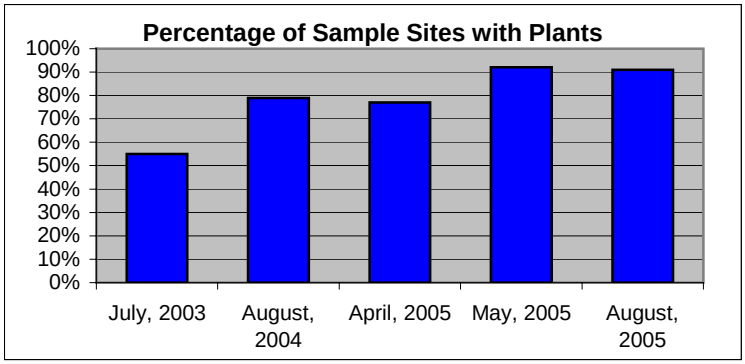


Figure 31. Webster Lake, comparison of the percentage of sample sites with plants in the last five surveys.

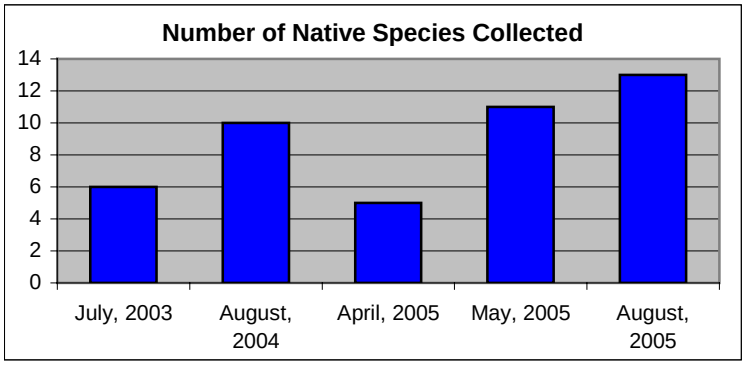


Figure 32. Webster Lake, comparison of number of native species collected in the last five surveys.

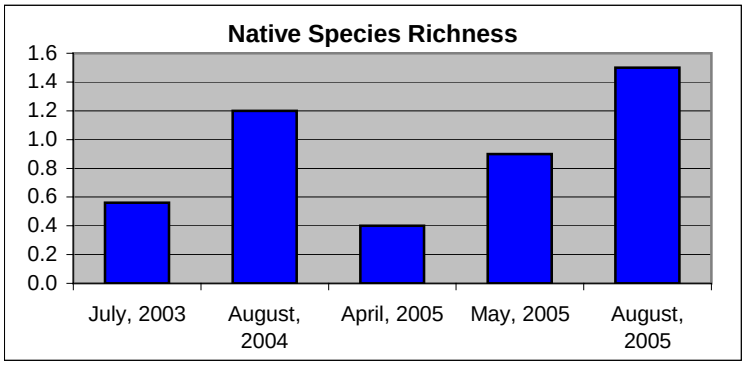


Figure 33. Webster Lake, comparison of native species richness in the last five surveys.

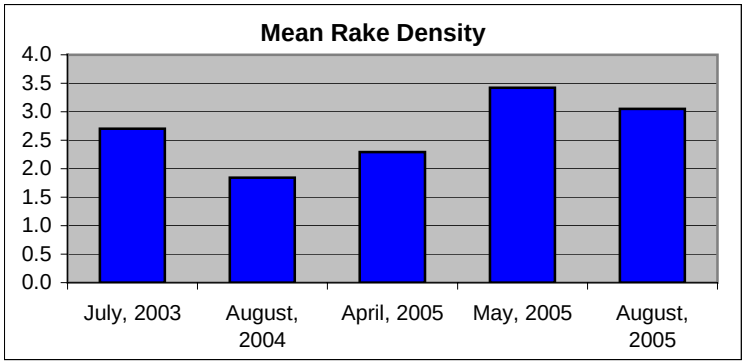


Figure 34. Webster Lake, comparison of mean rake density in the last five surveys.

The apparent increase in native species abundance and density corresponded with an apparent reduction in Eurasian watermilfoil by late summer of 2005. This reduction was likely due to aggressive application of Renovate herbicide that took place in late April and May of 2005. The reduction in milfoil may have aided in the increase in native species metrics by reducing competition between natives and exotics. Figures 35 and 36 graphically illustrate the reduction in Eurasian watermilfoil density and abundance by the August survey.

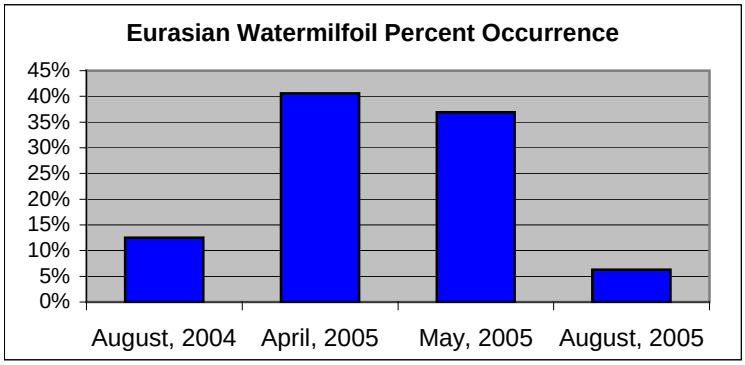


Figure 35. Webster Lake, Eurasian watermilfoil percent occurrence in the last four surveys.

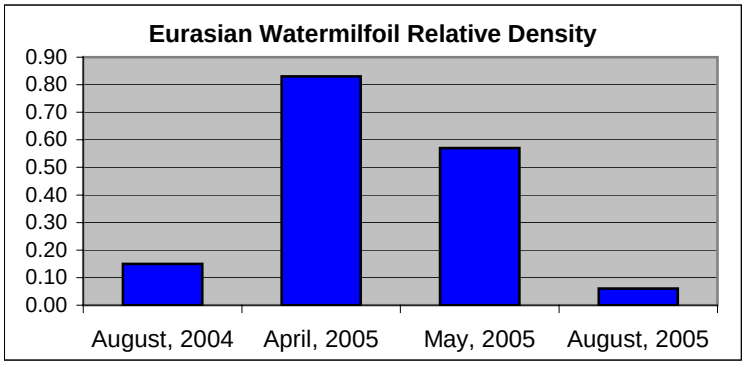


Figure 36. Webster Lake, Eurasian watermilfoil relative density in the last four surveys.

Eurasian watermilfoil has been the primary focus of the management activities since 1999. This species was managed with two whole-lake fluridone treatments in 1999 and 2002. Figure 37 graphically illustrates the changes in the abundance of this species experienced since 2001. This figure shows how quickly this species can reinfest following whole lake treatments. It appears that a maximum of three to four years control can be achieved if fluridone is not followed up with selective spot treatments (whole lake fluridone treatment was completed after the 2002 sampling).

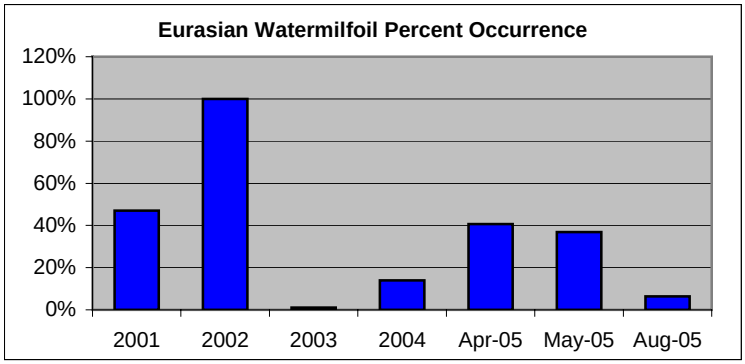


Figure 37. Eurasian watermilfoil percent occurrence in the last seven surveys (different survey techniques used in 2001 and 2002).

Curlyleaf pondweed has become a serious problem in Webster Lake. This species continues to create nuisance conditions, especially in the spring. Dense beds of this species reached the surface and created nuisance conditions from April through June. These beds naturally died off by mid-summer. It was initially planned that some areas of curlyleaf would be treated in 2005, but due to a dramatic increase in Eurasian watermilfoil, LARE funds were not used for curlyleaf pondweed treatments. An aggressive curlyleaf pondweed treatment program should be initiated in 2006 in order to address this problem. Figures 38 and 39 graphically illustrate the extent of curlyleaf pondweed infestation witnessed in the spring of 2005.

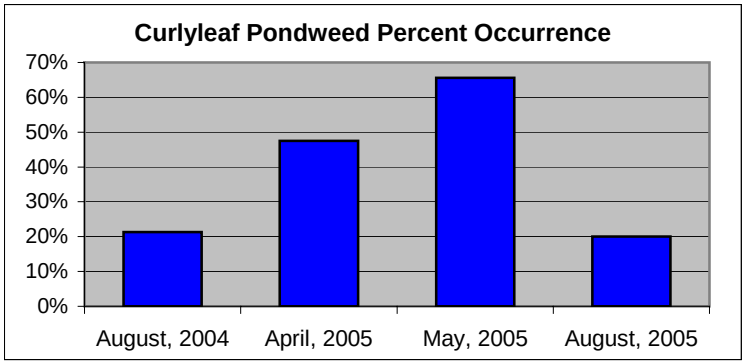


Figure 38. Webster Lake, curlyleaf pondweed percent occurrence in the last three surveys.

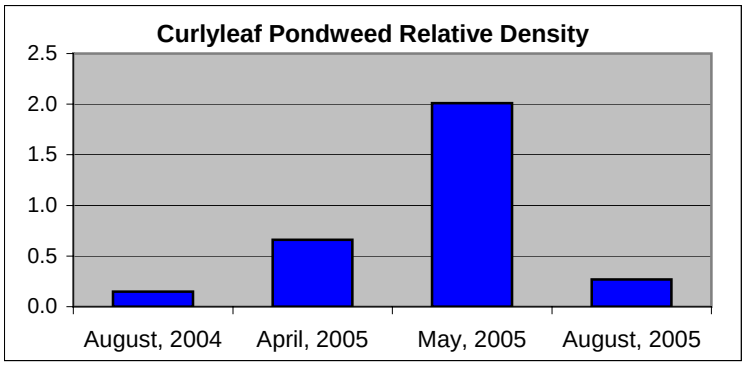


Figure 39. Webster Lake, curlyleaf pondweed relative density in the last three surveys.

The sampling data suggests that this seasons selective treatments of Eurasian watermilfoil had overall positive effects on the aquatic plant community of Webster Lake. However, it is difficult to predict how much Eurasian watermilfoil will return in 2006. This season's prediction was well below what actually occurred, and the Association had to use their own funds to complete many of the treatments. Along with the milfoil problems, it is apparent that curlyleaf pondweed is continuing to spread and this situation needs to be addressed. Treatment of curlyleaf pondweed will likely have positive effects on native vegetation and will certainly reduce nuisance conditions.

Backwater Lake Sampling Discussion

Discussion of Backwater Lake is included in the "Webster Lake AVMP" due to the belief that Webster Lake's Eurasian watermilfoil infestation originates in or above this lake. Backwater Lake was treated in 2005 with contact and systemic herbicides in order to reduce nuisance conditions and control the spread of Eurasian watermilfoil. These treatments appeared to have no negative effects on native vegetation as illustrated in Figures 40-43. Actually, there appears to have been an increase in the abundance and density of native species in the last four surveys.

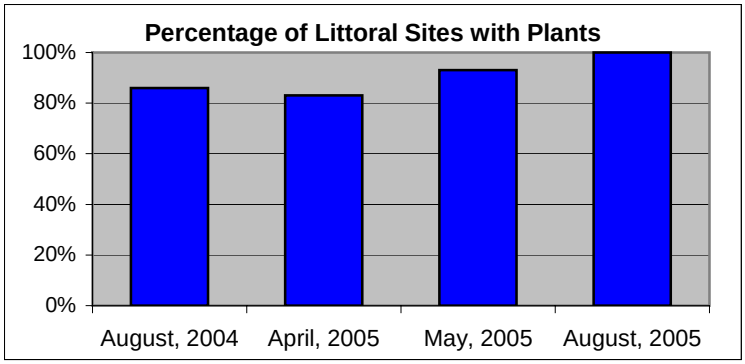


Figure 40. Backwater Lake, percentage of littoral sites with plants in the last four surveys.

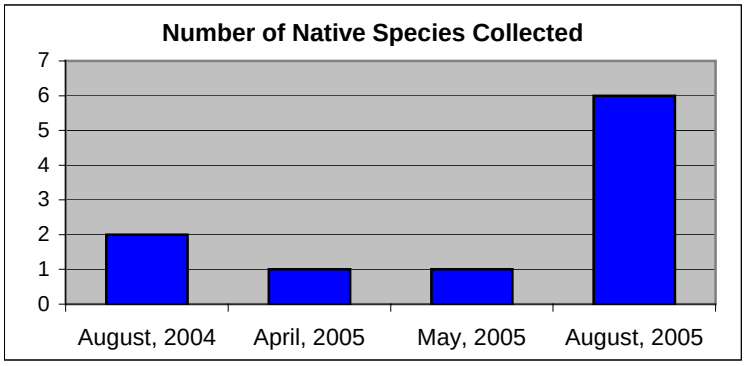


Figure 41. Backwater Lake, number of native species collected in the last four surveys.

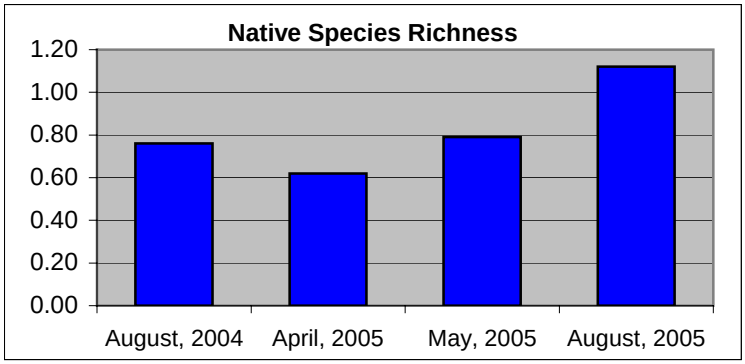


Figure 42. Backwater Lake, native species richness in the last four surveys.

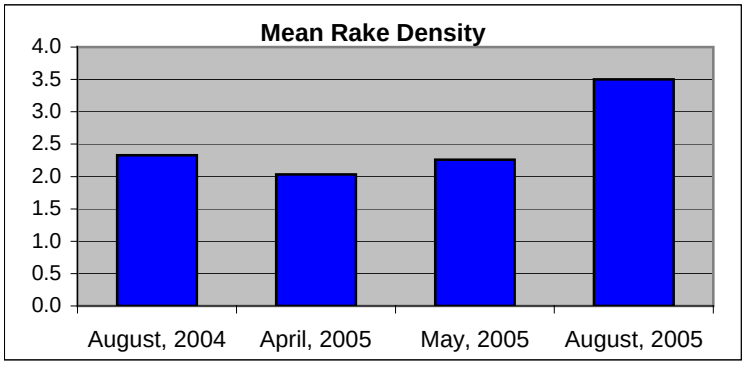


Figure 43. Backwater Lake, mean rake density in the last four surveys.

In 2005, Eurasian watermilfoil was treated with funds generated by the Webster Lake Conservation Association. The primary focus of these treatments was on areas closest to the stream connecting the two waterbodies. The treatments were effective at controlling milfoil in these areas, but the exotic species appeared in new areas after treatment as illustrated in Figures 44 and 45. In order to reduce the abundance of milfoil in Backwater Lake a more aggressive approach should be taken in 2006.

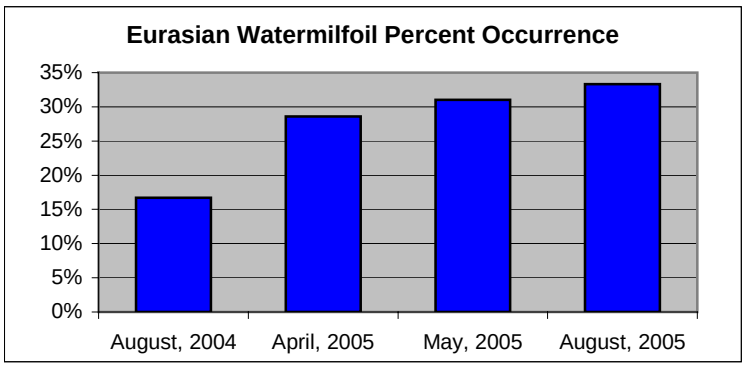


Figure 44. Backwater Lake, Eurasian watermilfoil percent occurrence in the last four surveys.

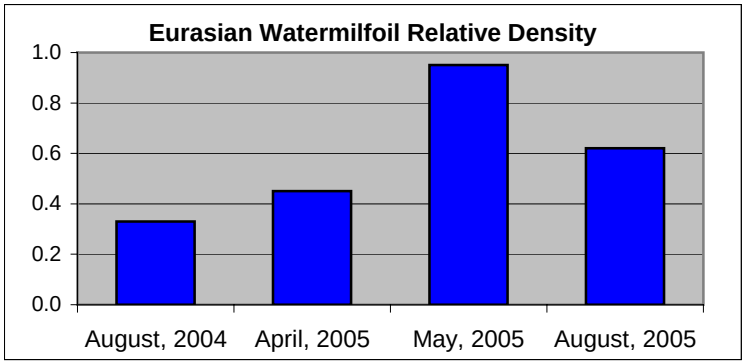


Figure 45. Backwater Lake, Eurasian watermilfoil relative density in the last four surveys.

2005 VEGETATION CONTROL

In general, the goals of the vegetation management plan are to control nuisance aquatic species, with a focus on exotic nuisance plants, while preserving and enhancing native vegetation. In 2005, treatments were completed with Renovate herbicide in order to selectively control this species everywhere it occurred. Along with this treatment, it was also planned to treat at least 10 acres of curlyleaf pondweed. Following the April sampling, it was determined that the funds should be used exclusively for control of Eurasian watermilfoil due to the extent of the infestation and the fact that curlyleaf pondweed would likely die off by the busy boating season. A total of 42.0 acres of milfoil was treated on April 26 with Renovate herbicide. The focus of the treatment was along the southeast, east, and northwestern shorelines of the lake as well as an area around the island on the northwest side of Webster Lake (Figure 46). This treatment was funded by LARE.

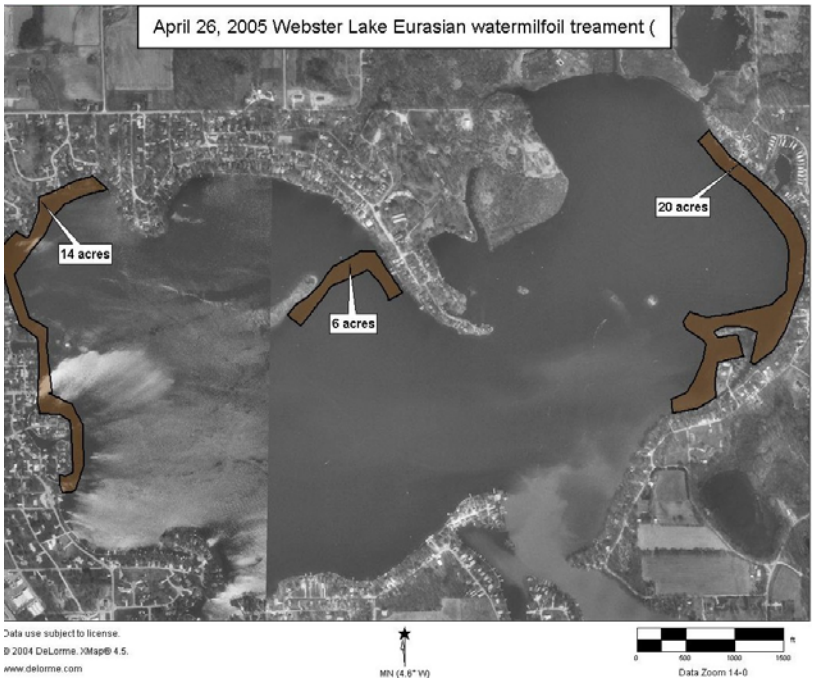


Figure 46. Webster Lake, Eurasian watermilfoil treatment areas, April 26, 2005.

It became apparent that a second treatment would be needed in the Webster Bay and Backwater area. All LARE funds had been used in the first treatment, but the Association saw the need for an additional treatment and agreed to come up with the funding. A total of 15.5 acres were treated with Renovate on June 1 (Figure 47).

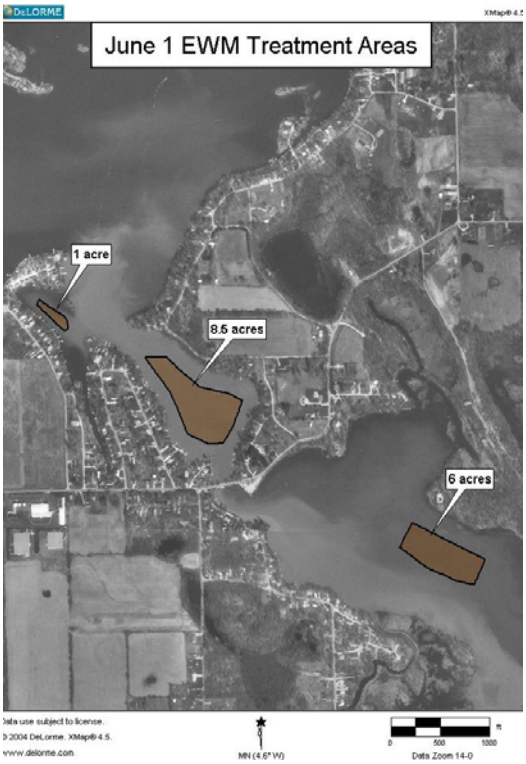


Figure 47. Webster and Backwater Lake, Eurasian watermilfoil treatment areas, June 1, 2005.

It was also apparent that native species were beginning to create nuisance conditions in near-shore areas. Along with the Renovate treatments, shoreline treatments were completed to both Webster and Backwater Lakes to relieve these conditions. A total of 80.0 acres was treated on Webster and 7.0 on Backwater (Figures 48 & 49). The primary targeted species were coontail and curlyleaf pondweed. The Webster Lake Conservation Association funded treatment of Webster Lake while a collection of homeowners from Backwater Lake funded treatment on their lake.

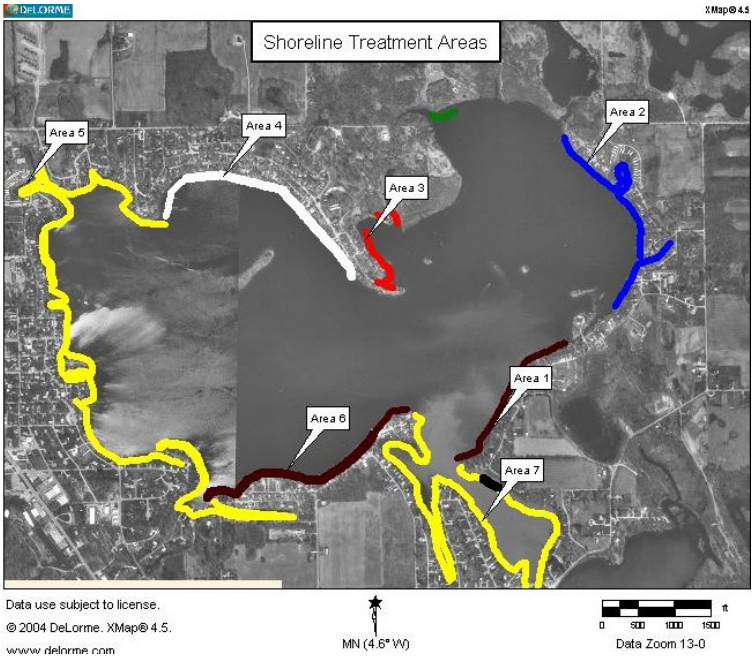


Figure 48. Webster Lake, shoreline treatment areas, June 1, 2005.

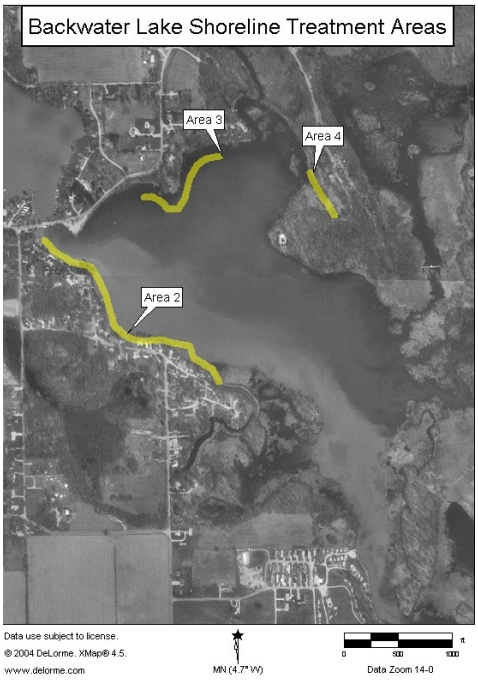


Figure 49. Backwater Lake, shoreline treatment areas, June 1, 2005.

Several weeks following the June 1st treatments, filamentous algae began creating nuisance conditions in near shore areas of Webster Lake. Filamentous algae was hampering boat traffic, swimming, and was an eye-sore to homeowners. A treatment of filamentous algae was funded by the Association and completed using copper sulfate on June 28, 2005. A total of 21.5 acres was treated in the most impaired shoreline areas (Figure 50).

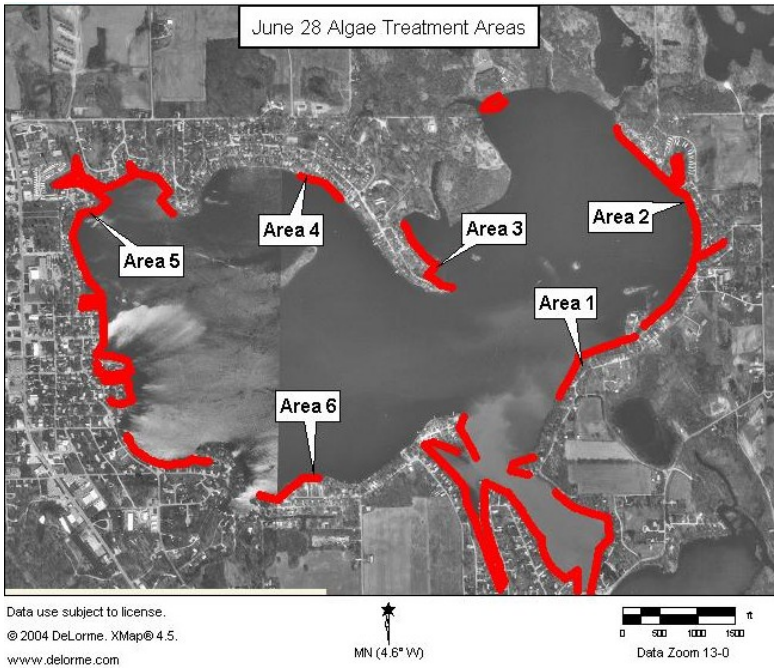


Figure 50. Webster Lake, shoreline algae treatment areas June 28, 2005.

In July, common naiad began reaching nuisance levels in and around many shoreline areas (naiad grows from seed and typically begins growing in early summer and reaches maximum density by late summer). It was not permitted to treat native species this late in the season, so District Fisheries Biologist Jed Pearson inspected the lake with representatives from the Association and Aquatic Control. Mr. Pearson approved treatment of 3.0 acres of naiads (Figure 51). The only areas approved were areas where boating was severely impaired. Treatment was completed to these areas on July 21, 2005 with a mixture of contact herbicides.

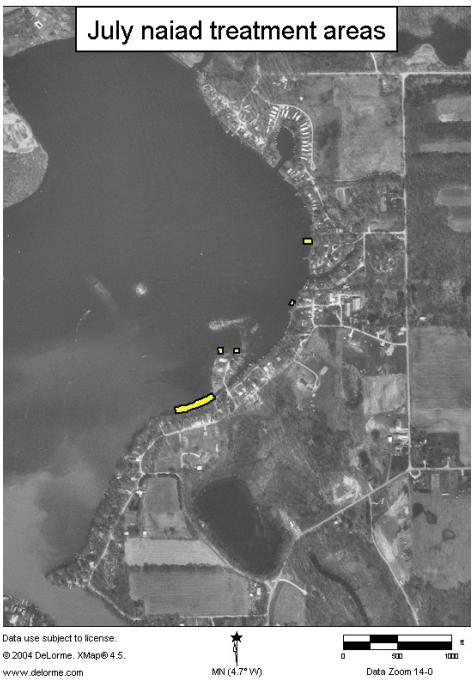


Figure 51. Webster Lake, naiad treatment areas, July 21, 2005.

In mid-August another algae treatment was required to relieve nuisance conditions in near-shore areas. There is no long term control for algae and conditions in 2005 were ideal for growth of filamentous algae in many Indiana lakes (little rain, warm sunny days, and clear water). Treatment was completed on 14.0 acres of filamentous algae on August 11, 2005 (Figure 52).

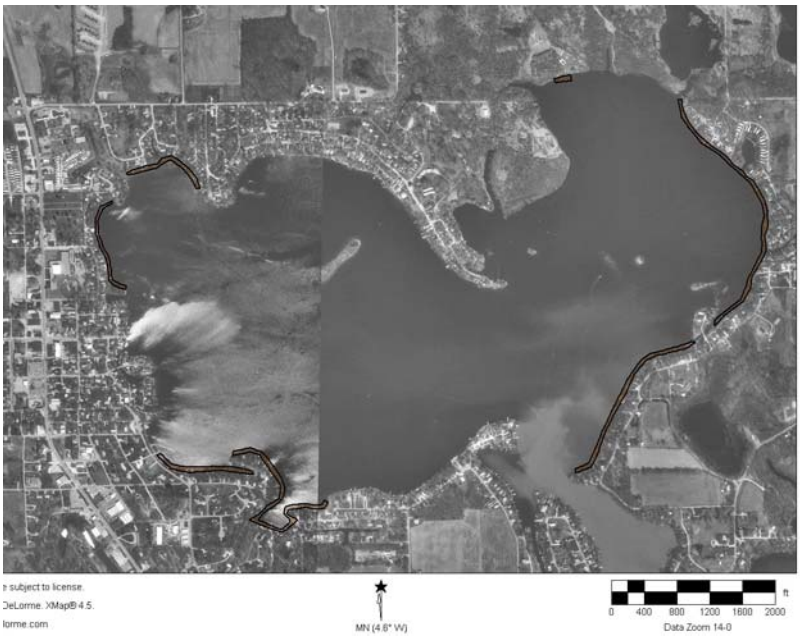


Figure 52. Webster Lake, algae treatment areas, August 11, 2005.

During the algae treatment a small area of Eurasian watermilfoil was noticed near the outflow of Backwater Lake near the public access site. It was feared that this bed of

milfoil could quickly reinfest the Webster Bay area that was treated earlier in the season with Renovate herbicide. Treatment of the boat ramp area as well as several small patches in Backwater Lake was completed on August 23, 2005 with Renovate herbicide (Figure 53). The treatment area totaled 7.0 acres and was funded by the WLCA.

Figure 53. Backwater Lake, Eurasian watermilfoil treatment areas, August 23, 2005.

Table 6 is a summary of the 2005 herbicide applications. This season was a much more active year when it came to vegetation control activities. When attempting to control Eurasian watermilfoil with spot treatments, there will likely be a need for these multiple treatments (it is impossible to treat every area where milfoil grows and this species spreads rapidly, especially in Webster Lake). Webster Lake has also experienced much clearer water in 2005. This may have led to increased nuisance algae growth requiring multiple treatments. It is unclear if the need for these treatments will be reduced in future seasons.

Table 7. Webster Lake, 2005 herbicide application summary.

Date	Lake Treated	Species Targeted	Herbicide Used	Acreage	Funded By
4/26/2005	Webster	Eurasian Watermilfoil	Renovate	42.0	LARE & WLCA (10%)
6/1/2005	Webster	Nuisance shoreline species	Reward/Nautique	80.0	WLCA
6/1/2005	Webster & Backwater	Eurasian Watermilfoil	Renovate	15.5	WLCA
6/1/2005	Backwater	Nuisance shoreline species	Reward/Nautique	7.0	Backwater
6/28/2005	Webster	Filamentous algae	Copper Sulfate	21.5	WLCA
7/21/2005	Webster	Naiads	Reward/Nautique	3.0	WLCA
8/11/2005	Webster	Filamentous algae	Copper Sulfate	14.0	WLCA
8/23/2005	Backwater	Eurasian Watermilfoil	Renovate	7.0	WLCA

ACTION PLAN AND BUDGET UPDATE

The action plan from last seasons AVMP update underestimated the extent of the Eurasian watermilfoil that would occur this season. Originally, it was planned that a maximum of 40 acres of milfoil and/or curlyleaf pondweed would require treatment, but actually 64.5 acres was treated on Webster and Backwater Lake. Even after treating 64.5 acres, some patches of milfoil appeared in new areas on Webster and some areas on Backwater were neglected due to their distance from the entrance to Webster. It is anticipated that up to 60 acres of milfoil may require treatment on Webster and 25 acres on Backwater in 2006 (Figure 53 & 54). This estimate is based on the amount that remained in Backwater Lake, the new areas that were observed in late September on Webster Lake, and the fact that milfoil spreads rapidly in this system.

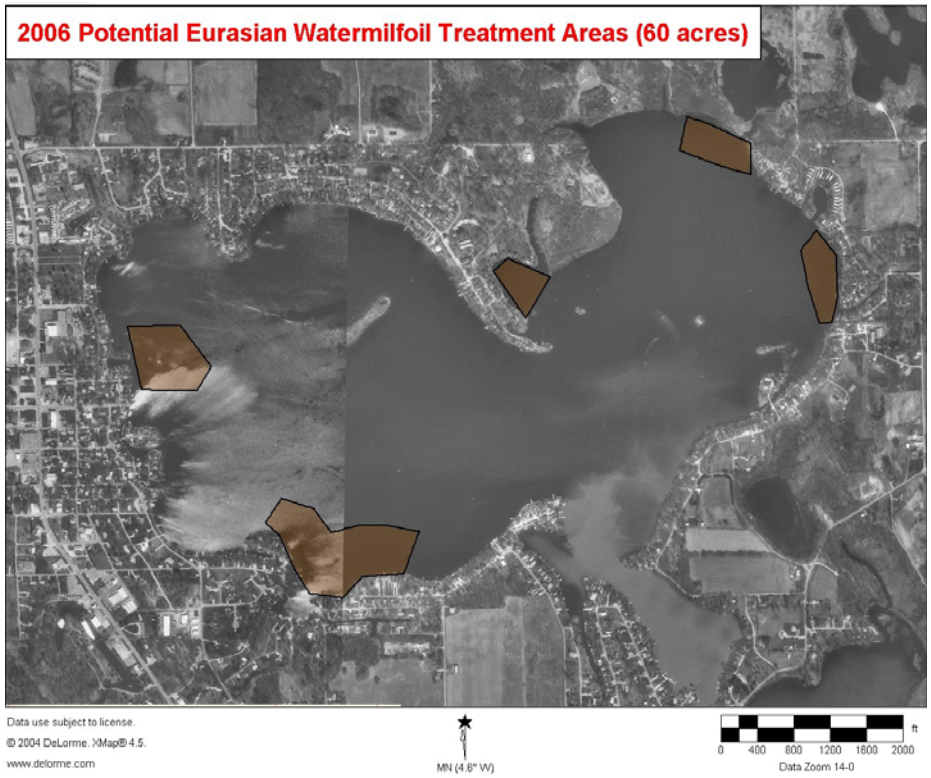


Figure 54. Webster Lake, potential Eurasian watermilfoil treatment areas.

Figure 55. Backwater Lake, potential Eurasian watermilfoil treatment areas.

If following spring surveys, it becomes apparent that more than 100 acres of Eurasian watermilfoil will require treatment, then a whole lake fluridone treatment would be more cost effective than treating Eurasian watermilfoil with Renovate every season. It will be important to further evaluate the costs of using Renovate versus fluridone at the end of next season. If the Renovate treatments cannot get ahead of the milfoil (able to treat less in successive seasons), it would be more cost effective to switch back to whole lake treatment strategy in order to get ahead of the problem and then follow up in successive seasons with much smaller-scale Renovate applications.

Along with the milfoil problem, it became apparent this season that curlyleaf pondweed was continuing to spread and should be aggressively controlled. Enormous beds of this species reached the surface in several areas around the lake. It is estimated that up to 125 acres of curlyleaf pondweed may require treatment in 2006 (Figure 55). This estimate was made from observations and the May tier II data. An early spring survey should be completed in order to create an accurate treatment map. This survey will need to take place in early to mid April and should use the tier II method.

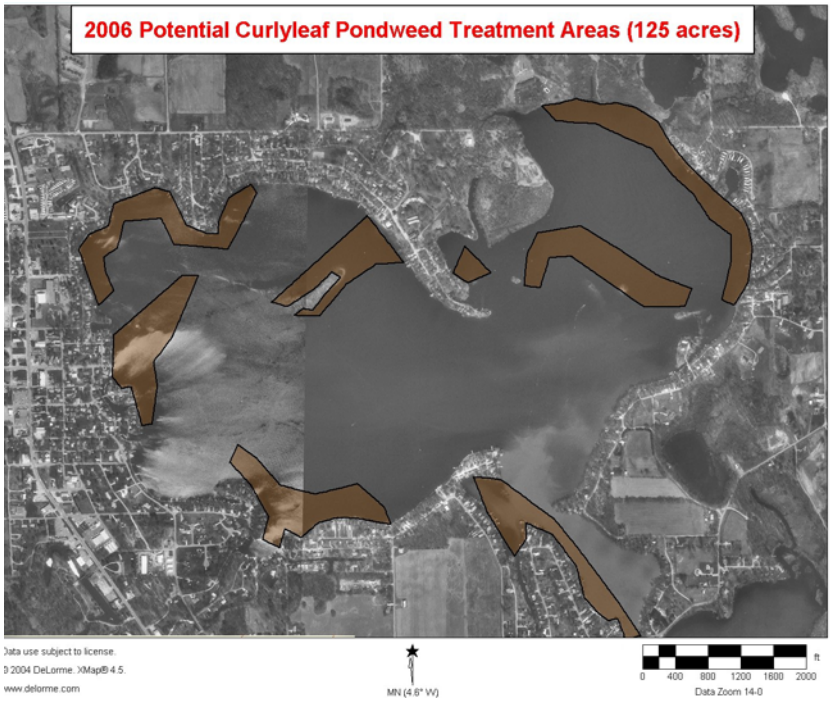


Figure 56. Webster Lake, potential curlyleaf pondweed treatment areas.

In order to obtain long-term control of curlyleaf pondweed, one should complete this treatment for three successive seasons. This treatment should take place shortly after ice-out, prior to turion production. Treating curlyleaf pondweed later in the season is simply a short-term control, since the plants have already produced their reproductive structures. Aquathol K is by far the best herbicide for controlling this species (see the 2004 plan, page 37 & 38, for more details on the effectiveness of this control). One drawback to a large-scale Aquathol K treatment is the 3-day fish harvest restriction (this is currently still on the Aquathol label, but may be removed by the spring of 2006 following the completion of the re-registration process). The fish harvest restriction will require detailed notices to be placed well before application at all boat launch areas, shoreline residences, and the local newspaper.

It will also be necessary to complete shoreline contact herbicide treatments in order to relieve residents of nuisance conditions caused by native vegetation. These treatments should not extend beyond 100 feet from the shoreline and should include only the areas treated this past season. Treatments should also be scheduled later in June in order to obtain some control of naiad that reached nuisance levels late last summer.

Along with herbicide applications, it will be important to continue monitoring the vegetation in a similar fashion. Three tier II surveys should be sufficient to keep track of any major changes in the plant population and make appropriate management decisions. These surveys should be completed near the same time as they were in 2006, with the exception of the early spring survey, which should be moved up one to two weeks

depending on weather conditions. This survey will provide data that will aid in the selection of curlyleaf pondweed and milfoil treatment areas.

A budget for the proposed applications and sampling is provided below. The budget includes the estimated costs of treatments that should be eligible for funding by LARE and treatments funded solely by the WLCA. The budget extends for the next three seasons. If all goes as planned, the renovate treatment areas will decrease each successive season much like we have observed on other natural lakes. However, Webster Lake seems to provide the perfect habitat for milfoil reinfestation.

Table 8. Webster Lake budget estimate for the next three seasons.

	2006	2007	2008
Early season curlyleaf pondweed treatment (125 acres)	$37,500	$37,500	$37,500
Renovate treatment for selective milfoil control	$36,125	$33,250	$29,000
Developed shoreline treatment (including algae not to exceed 80 acres)	$32,960	$32,960	$32,960
Plant Sampling and plan update	$6,000	$6,000	$6,000
Total LARE Funding Request:	**$79,625**	**$75,375**	**$71,125**
Total Funded Strictly by Association:	**$32,960**	**$32,960**	**$32,960**

It is recommended that the WLCA request $79,625 from the LARE program in order to complete vegetation controls on Webster Lake in 2006. This is a large increase from the amount requested last season, but the author of this report was under the impression that only $20,000 would be allocated and that was made apparent this season that $20,000 was well below what will be required to improve long-term conditions on Webster Lake. These treatments are not set up to be maintenance treatments. The curlyleaf program will not be needed following 2008, with the exception of small scale spot treatments, and the Renovate treatments should effectively reduce milfoil to a level that is manageable by the Association. This budget is a rough estimate, especially for 2007 and 2008. Future trends in vegetation communities are very difficult to predict, but with the aggressive sampling protocol, Webster Lake may become more predictable.

PUBLIC INVOLVEMENT

A public meeting was held at the Webster Lake Community Center on September 21, 2005. The meeting was designed to educate lake users on the benefits of aquatic vegetation, 2005 vegetation controls, and the future of aquatic plant management on Webster Lake. The meeting was also used to gain input from lake users concerning their perceptions of aquatic vegetation and satisfaction or dissatisfaction concerning vegetation control techniques. Approximately 50 individuals were in attendance of which 45 filled out a lake use survey. Eighty-five percent of those surveyed own property on the lake and 80% are members of a lake association. Eighty-five percent use the lake for boating,

82% fishing, 80% swimming, and 42% use the lake for irrigation. Ninety-three percent of those surveyed indicated that they were in favor of continuing vegetation control efforts. Many of those in attendance expressed their concerns about the increase in native vegetation in and around their dock areas. It was expressed that this vegetation is beneficial to fisheries, but efforts would be made to reduce the nuisance effects near dock areas. Annual public meetings should be completed in order to keep the management plan properly updated.

APPENDIX UPDATE
2005 Plant Sampling Data
Webster Lake

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	ELCA7	POZO	SpeNum	NatSpeNum
Webster	4/15/05	41.3167	-85.6711	162	4.0	1		1						1	0
Webster	4/15/05	41.31794	-85.6704	163	3.0	1			1					1	1
Webster	4/15/05	41.31887	-85.67	164	3.0	3			3					1	1
Webster	4/15/05	41.31886	-85.6712	165	3.0	1			1					1	1
Webster	4/15/05	41.31972	-85.6722	166	3.0	3			3					1	1
Webster	4/15/05	41.31975	-85.673	167	4.0	1			1					1	1
Webster	4/15/05	41.32076	-85.6744	168	4.0	1			1					1	1
Webster	4/15/05	41.3216	-85.6753	169	5.0	NP								0	0
Webster	4/15/05	41.32142	-85.6741	170	3.0	1	1							1	0
Webster	4/15/05	41.32223	-85.6735	171	4.0	1		1						1	0
Webster	4/15/05	41.32316	-85.6727	172	4.0	2			2					1	1
Webster	4/15/05	41.32418	-85.6728	173	5.0	NP								0	0
Webster	4/15/05	41.32444	-85.6719	174	5.0	NP								0	0
Webster	4/15/05	41.32537	-85.6718	175	6.0	1	1							1	0
Webster	4/15/05	41.32533	-85.6707	176	2.0	1	1							1	0
Webster	4/15/05	41.32614	-85.6705	177	5.0	1	1							1	0
Webster	4/15/05	41.32656	-85.6692	178	5.0	4	4							1	0
Webster	4/15/05	41.32745	-85.6698	179	5.0	5	3		2		1			3	2
Webster	4/15/05	41.3279	-85.6709	180	6.0	5	4	1						2	0
Webster	4/15/05	41.32766	-85.6724	181	4.0	NP								0	0
Webster	4/15/05	41.32863	-85.6733	182	2.0	1				1				1	1
Webster	4/15/05	41.32939	-85.6727	183	7.0	1	1							1	0
Webster	4/15/05	41.32923	-85.6716	184	8.0	1		1						1	0
Webster	4/15/05	41.32847	-85.6701	185	5.0	1		1						1	0
Webster	4/15/05	41.32811	-85.6686	186	5.0	3	2	1		1				3	1
Webster	4/15/05	41.32786	-85.6674	187	3.0	3	3							1	0
Webster	4/15/05	41.32728	-85.6668	188	2.0	4	3		1					2	1
Webster	4/15/05	41.32812	-85.6664	189	3.0	5	3	1			2	2		4	2
Webster	4/15/05	41.32874	-85.6662	190	3.0	5	5	1	1					3	1
Webster	4/15/05	41.32963	-85.6662	191	5.0	4	3	1						2	0
Webster	4/15/05	41.33041	-85.666	192	3.0	2	2		1					2	1
Webster	4/15/05	41.33094	-85.667	193	6.0	1	1	1						2	0
Webster	4/15/05	41.33177	-85.6665	194	5.0	1			1					1	1
Webster	4/15/05	41.33164	-85.6678	195	5.0	1		1	1					2	1
Webster	4/15/05	41.33205	-85.6686	196	4.0	NP								0	0
Webster	4/15/05	41.33271	-85.6692	197	4.0	2	1	2						2	0
Webster	4/15/05	41.33339	-85.67	198	3.0	4	1	3						2	0
Webster	4/15/05	41.33371	-85.6713	199	4.0	1		1						1	0
Webster	4/15/05	41.33429	-85.6717	200	3.0	5	4	2		1				3	1
Webster	4/15/05	41.33414	-85.672	201	3.0	5	2	4						2	0
Webster	4/15/05	41.33425	-85.6725	202	2.0	2				2				1	1
Webster	4/15/05	41.33413	-85.6734	203	2.0	2		2						1	0
Webster	4/15/05	41.33423	-85.6743	204	2.0	1	1	1						2	0
Webster	4/15/05	41.33368	-85.674	205	10.0	NP								0	0
Webster	4/15/05	41.333	-85.6749	206	3.0	NP								0	0
Webster	4/15/05	41.33219	-85.6746	207	3.0			3		3				2	1
Webster	4/15/05	41.33159	-85.6738	208	16.0	NP								0	0
Webster	4/15/05	41.33054	-85.6741	209	6.0	NP								0	0
Webster	4/15/05	41.33009	-85.6735	210	6.0	1	1	1						2	0
Webster	4/15/05	41.32951	-85.6738	211	9.0	NP								0	0
Webster	4/15/05	41.32989	-85.6748	212	5.0	1		1						1	0
Webster	4/15/05	41.32997	-85.6759	213	2.0	5	5							1	0
Webster	4/15/05	41.3293	-85.6754	214	5.0	3	2	1						2	0
Webster	4/15/05	41.32885	-85.6747	215	7.0	NP								0	0
Webster	4/15/05	41.32845	-85.6756	216	5.0	1		1						1	0
Webster	4/15/05	41.32824	-85.6768	217	4.0	NP								0	0
Webster	4/15/05	41.32886	-85.6777	218	5.0	1		1	1					2	1
Webster	4/15/05	41.32934	-85.6784	219	3.0	1		1						1	0
Webster	4/15/05	41.32955	-85.6792	220	3.0	1			1					1	1
Webster	4/15/05	41.32885	-85.6786	221	4.0	1		1	1					2	1
Webster	4/15/05	41.32817	-85.6781	222	3.0	1			1					1	1
Webster	4/15/05	41.32766	-85.6775	223	2.0	NP								0	0
Webster	4/15/05	41.32757	-85.6765	224	7.0	NP								0	0
Webster	4/15/05	41.32725	-85.6776	225	6.0	5	1		5		2			3	2
Webster	4/15/05	41.32731	-85.6787	226	8.0	NP								0	0
Webster	4/15/05	41.3279	-85.6799	227	6.0	1			1					1	1
Webster	4/15/05	41.32872	-85.6808	228	6.0	3			3					1	1
Webster	4/15/05	41.32945	-85.6815	229	5.0	1		1						1	0
Webster	4/15/05	41.32958	-85.6822	230	7.0	2	2	1	1					3	1
Webster	4/15/05	41.32938	-85.6831	231	7.0	2		2						1	0
Webster	4/15/05	41.32883	-85.6837	232	4.0	1	1	1						2	0
Webster	4/15/05	41.32806	-85.6845	233	5.0	5	5	1						2	0
Webster	4/15/05	41.32739	-85.6844	234	12.0	NP								0	0
Webster	4/15/05	41.32741	-85.6856	235	6.0	1	1	1						2	0
Webster	4/15/05	41.3279	-85.6865	236	4.0	1		1						1	0
Webster	4/15/05	41.32859	-85.6854	237	9.0	2		1	2					2	1
Webster	4/15/05	41.32904	-85.6844	238	8.0	3		1	2					2	1
Webster	4/15/05	41.32973	-85.6836	239	10.0	1	1							1	0
Webster	4/15/05	41.33016	-85.683	240	7.0	5	3	4						2	0
Webster	4/15/05	41.33101	-85.6835	241	6.0	1			1					1	1
Webster	4/15/05	41.33136	-85.6846	242	9.0	NP								0	0
Webster	4/15/05	41.33162	-85.6859	243	9.0	1	1		1					2	1
Webster	4/15/05	41.33158	-85.6871	244	8.0	1			1					1	1
Webster	4/15/05	41.33149	-85.6885	245	6.0	3	1	2						2	0
Webster	4/15/05	41.33085	-85.6888	246	5.0	3		3						1	0
Webster	4/15/05	41.33034	-85.6892	247	5.0	2	1				2			2	1
Webster	4/15/05	41.32979	-85.6893	248	8.0	NP								0	0
Webster	4/15/05	41.32998	-85.6904	249	6.0	2	1	2						2	0
Webster	4/15/05	41.33011	-85.6914	250	6.0	NP								0	0
Webster	4/15/05	41.3309	-85.6914	251	2.0	5	2			3				2	1
Webster	4/15/05	41.33092	-85.6921	252	3.0	4	3	1						2	0
Webster	4/15/05	41.33153	-85.6926	253	3.0	5	5							1	0
Webster	4/15/05	41.33084	-85.6931	254	4.0	NP								0	0
Webster	4/15/05	41.33028	-85.6929	255	7.0	NP								0	0
Webster	4/15/05	41.33079	-85.6938	256	3.0	2	1	1		1				3	1
Webster	4/15/05	41.33161	-85.6954	257	4.0	2		2						1	0
Webster	4/15/05	41.33041	-85.6941	258	4.0	5	5							1	0
Webster	4/15/05	41.32972	-85.6944	259	6.0	3	1	3						2	0
Webster	4/15/05	41.32947	-85.6953	260	3.0	5	4	2						2	0
Webster	4/15/05	41.32865	-85.695	261	4.0	1	1	1						2	0
Webster	4/15/05	41.32813	-85.6945	262	3.0	2	1	2						2	0
Webster	4/15/05	41.32753	-85.6929	263	4.0	NP								0	0
Webster	4/15/05	41.3268	-85.6921	264	6.0	1		1						1	0
Webster	4/15/05	41.32774	-85.6915	265	9.0	3	1	3						2	0
Webster	4/15/05	41.32857	-85.6908	266	8.0	3		1		1	1			3	2
Webster	4/15/05	41.32727	-85.6916	267	7.0	1		1						1	0

Species Codes	
BIBE	Bur marigold
CEDE4	Coontail
CH?AR	Chara
ELCA7	Elodea
LEMN	Duckweeds
MYHE	Broadleaf watermilfoil
MYSI	Northern watermilfoil
MYSP2	Eurasian watermilfoil
MYVE	Whorled watermilfoil
NAFL	Slender naiad
NAGU	Southern waternymph
NAMA	Spiny naiad
NAMI	Brittle waternymph
NELU	American lotus
NI?TE	Nitella
NOAQVG	No aquatic vegetation
NULU	Yellow pond lily
NYTU	White water lily
POAM	Large-leaf pondweed
POCR3	Curly-leaf pondweed
POFO3	Leafy pondweed
POGR8	Variable pondweed
POIL	Illinois pondweed
PONO2	American pondweed
POPE6	Sago pondweed
POPR5	White-stemmed pondweed
POPU7	Small pondweed
PORI2	Richardson's pondweed
POZO	Flat-stemmed pondweed
UTMA	Common bladderwort
VAAM3	Wild celery, eel grass
WO?LF	Watermeal
ZAPA	Horned pondweed
ZODU	Water stargrass
Count	34

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	ELCA7	POZO	SpeNum	NatSpeNum	Species Codes	
Webster	4/15/05	41.32645	-85.6927	268	5.0	3		1		3				2	1	BIBE	Bur marigold
Webster	4/15/05	41.32667	-85.6939	269	4.0	4	2	1		2				3	1	CEDE4	Coontail
Webster	4/15/05	41.32602	-85.694	270	5.0	5	5	1						2	0	CH?AR	Chara
Webster	4/15/05	41.32517	-85.6939	271	5.0	5	3	1			3			3	1	ELCA7	Elodea
Webster	4/15/05	41.32554	-85.6929	272	6.0	5		2		2	2			3	2	LEMN	Duckweeds
Webster	4/15/05	41.32484	-85.6927	273	5.0	4	2	2						2	0	MYHE	Broadleaf watermilfoil
Webster	4/15/05	41.32403	-85.6927	274	3.0	2	1	1						2	0	MYSI	Northern watermilfoil
Webster	4/15/05	41.32359	-85.6924	275	4.0	NP								0	0	MYSP2	Eurasian watermilfoil
Webster	4/15/05	41.32337	-85.6917	276	3.0	NP								0	0	MYVE	Whorled watermilfoil
Webster	4/15/05	41.32317	-85.6926	277	5.0	NP								0	0	NAFL	Slender naiad
Webster	4/15/05	41.32273	-85.6927	278	4.0	2	2							1	0	NAGU	Southern waternymph
Webster	4/15/05	41.32213	-85.6926	279	3.0	1				1				1	1	NAMA	Spiny naiad
Webster	4/15/05	41.32255	-85.6918	280	5.0	NP								0	0	NAMI	Brittle waternymph
Webster	4/15/05	41.32192	-85.6921	281	4.0	NP								0	0	NELU	American lotus
Webster	4/15/05	41.3214	-85.6913	282	3.0	1		1		1				2	1	NI?TE	Nitella
Webster	4/15/05	41.32162	-85.69	283	2.0	3	1			2				2	1	NOAQVG	No aquatic vegetation
Webster	4/15/05	41.32215	-85.6889	284	5.0	NP								0	0	NULU	Yellow pond lily
Webster	4/15/05	41.32266	-85.6885	285	7.0	1		1						1	0	NYTU	White water lily
Webster	4/15/05	41.32234	-85.6881	286	7.0	1		1						1	0	POAM	Large-leaf pondweed
Webster	4/15/05	41.32173	-85.6877	287	6.0	4	1	1	1		2			4	2	POCR3	Curly-leaf pondweed
Webster	4/15/05	41.32119	-85.6874	288	3.0	1				1	1			2	2	POFO3	Leafy pondweed
Webster	4/15/05	41.32061	-85.687	289	7.0	2	1	2						2	0	POGR8	Variable pondweed
Webster	4/15/05	41.3201	-85.6873	290	4.0	4	1	1	2		1			4	2	POIL	Illinois pondweed
Webster	4/15/05	41.31944	-85.6879	291	3.0	2	2							1	0	PONO2	American pondweed
Webster	4/15/05	41.31986	-85.6871	292	7.0	3	1	1	3					3	1	POPE6	Sago pondweed
Webster	4/15/05	41.3202	-85.686	293	3.0	1				1	1			2	2	POPR5	White-stemmed pondweed
Webster	4/15/05	41.32084	-85.6852	294	6.0	5	3	1						2	0	POPU7	Small pondweed
Webster	4/15/05	41.32077	-85.6842	295	6.0	2		2						1	0	PORI2	Richardson's pondweed
Webster	4/15/05	41.32166	-85.6839	296	8.0	NP								0	0	POZO	Flat-stemmed pondweed
Webster	4/15/05	41.32147	-85.6833	297	8.0	1	1	1						2	0	UTMA	Common bladderwort
Webster	4/15/05	41.32061	-85.6823	298	6.0	3	2	1						2	0	VAAM3	Wild celery, eel grass
Webster	4/15/05	41.3208	-85.6814	299	6.0	NP								0	0	WO?LF	Watermeal
Webster	4/15/05	41.32136	-85.6804	300	7.0	NP								0	0	ZAPA	Horned pondweed
Webster	4/15/05	41.32192	-85.6795	301	9.0	1	1							1	0	ZODU	Water stargrass
Webster	4/15/05	41.32238	-85.6791	302	8.0	1			1		1			2	2		
Webster	4/15/05	41.32273	-85.6785	303	5.0	1	1	1						2	0	Count	34
Webster	4/15/05	41.32309	-85.6773	304	8.0	NP								0	0		
Webster	4/15/05	41.32335	-85.676	305	6.0	NP								0	0		
Webster	4/15/05	41.32317	-85.6751	306	7.0	NP								0	0		
Webster	4/15/05	41.32253	-85.675	307	6.0	NP								0	0		
Webster	4/15/05	41.32243	-85.676	308	5.0	NP								0	0		
Webster	4/15/05	41.32196	-85.6764	309	4.0	NP								0	0		
Webster	4/15/05	41.32181	-85.6774	310	3.0	1		1					1	2	1		
Webster	4/15/05	41.32146	-85.678	311	3.0	3			3	1				2	2		
Webster	4/15/05	41.3211	-85.6771	312	3.0	1	1	1						2	0		
Webster	4/15/05	41.31952	-85.6761	313	3.0	1		1						1	0		
Webster	4/15/05	41.32072	-85.6759	314	3.0	1		1						1	0		
Webster	4/15/05	41.32021	-85.6744	315	4.0	1	1	1	1					3	1		
Webster	4/15/05	41.31935	-85.6737	316	5.0	1		1	1					2	1		
Webster	4/15/05	41.31907	-85.6727	317	5.0	NP								0	0		
Webster	4/15/05	41.31883	-85.6722	318	4.0	NP								0	0		
Webster	4/15/05	41.31843	-85.6728	319	3.0	4	4							1	0		
Webster	4/15/05	41.3177	-85.6723	320	4.0	1		1						1	0		
Webster	4/15/05	41.31772	-85.6715	321	5.0	NP								0	0		

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	POPE6	VAAM3	ELCA7	POZO	POAM	MYSI	ZODU	ZAPA	SpeNum	NatSpeNum
Webster	5/25/05	41.3167	-85.6711	162	6.0	1	1	1	1											3	1
Webster	5/25/05	41.31794	-85.6704	163	5.0	1		1	1											2	1
Webster	5/25/05	41.31887	-85.67	164	4.0															0	0
Webster	5/25/05	41.31886	-85.6712	165	6.0	2		1	2											2	1
Webster	5/25/05	41.31972	-85.6722	166	3.0	5	2	5	2											3	1
Webster	5/25/05	41.31975	-85.673	167	5.0	4	1	1	4											3	1
Webster	5/25/05	41.32076	-85.6744	168	4.0	3	1	3	1											3	1
Webster	5/25/05	41.3216	-85.6753	169	6.0															0	0
Webster	5/25/05	41.32142	-85.6741	170	4.0	5	1	5												2	0
Webster	5/25/05	41.32223	-85.6735	171	5.0	5	3	3	3											3	1
Webster	5/25/05	41.32316	-85.6727	172	5.0	1		1												1	0
Webster	5/25/05	41.32418	-85.6728	173	6.0	1					1									1	1
Webster	5/25/05	41.32444	-85.6719	174	4.0	3	1				3				1					3	2
Webster	5/25/05	41.32537	-85.6718	175	8.0															0	0
Webster	5/25/05	41.32533	-85.6707	176	3.0	3		1		2	1				1			1		5	4
Webster	5/25/05	41.32614	-85.6705	177	6.0	5	1	2			5									3	1
Webster	5/25/05	41.32656	-85.6692	178	6.0	5	1	5			1									3	1
Webster	5/25/05	41.32745	-85.6698	179	7.0	5	2	5												2	0
Webster	5/25/05	41.3279	-85.6709	180	6.0	5	3	5	1											3	1
Webster	5/25/05	41.32766	-85.6724	181	3.0	1					1									1	1
Webster	5/25/05	41.32863	-85.6733	182	3.0	1				1										1	1
Webster	5/25/05	41.32939	-85.6727	183	7.0	2		2	1											2	1
Webster	5/25/05	41.32923	-85.6716	184	10.0	5		1	5											2	1
Webster	5/25/05	41.32847	-85.6701	185	6.0	2		1	2						1					3	2
Webster	5/25/05	41.32811	-85.6686	186	6.0	4		2	2						1					3	2
Webster	5/25/05	41.32786	-85.6674	187	3.0	3									1	3				2	2
Webster	5/25/05	41.32728	-85.6668	188	2.0	5		1						5						2	1
Webster	5/25/05	41.32812	-85.6664	189	4.0	2		2												1	0
Webster	5/25/05	41.32874	-85.6662	190	5.0	5	1	1	2		3									4	2
Webster	5/25/05	41.32963	-85.6662	191	6.0	5		5												1	0
Webster	5/25/05	41.33041	-85.666	192	5.0	5		1	5								1			3	2
Webster	5/25/05	41.33094	-85.667	193	6.0	5		5												1	0
Webster	5/25/05	41.33177	-85.6665	194	6.0	2	1		2				1							3	2
Webster	5/25/05	41.33164	-85.6678	195	6.0	5	1	5	2											3	1
Webster	5/25/05	41.33205	-85.6686	196	6.0	2		2	1											2	1
Webster	5/25/05	41.33271	-85.6692	197	6.0	5		5	2											2	1
Webster	5/25/05	41.33339	-85.67	198	5.0	5	1	5												2	0
Webster	5/25/05	41.33371	-85.6713	199	5.0	5		5	1											2	1
Webster	5/25/05	41.33429	-85.6717	200	4.0	5	5	5	1											3	1
Webster	5/25/05	41.33414	-85.672	201	4.0	5	1	5										1		4	2
Webster	5/25/05	41.33425	-85.6725	202	4.0	5	2	5						1						3	1
Webster	5/25/05	41.33413	-85.6734	203	4.0	2	1	2							1					3	1
Webster	5/25/05	41.33423	-85.6743	204	3.0	1			1											1	1
Webster	5/25/05	41.33368	-85.674	205	5.0	5		5												1	0
Webster	5/25/05	41.333	-85.6749	206	4.0	5		5												1	0
Webster	5/25/05	41.33219	-85.6746	207	4.0	5		5												1	0
Webster	5/25/05	41.33159	-85.6738	208	12.0	2			2											1	1
Webster	5/25/05	41.33054	-85.6741	209	5.0	5		5												1	0
Webster	5/25/05	41.33009	-85.6735	210	7.0	5		5	1											2	1
Webster	5/25/05	41.32951	-85.6738	211	10.0	1		1												1	0
Webster	5/25/05	41.32989	-85.6748	212	5.0	5		5										1		2	1
Webster	5/25/05	41.32997	-85.6759	213	2.0	3				3										1	1
Webster	5/25/05	41.3293	-85.6754	214	5.0	5	3	5												2	0
Webster	5/25/05	41.32885	-85.6747	215	8.0															0	0
Webster	5/25/05	41.32845	-85.6756	216	5.0	4	1	3												2	0
Webster	5/25/05	41.32824	-85.6768	217	5.0															0	0
Webster	5/25/05	41.32886	-85.6777	218	3.0	2		1											2	2	1
Webster	5/25/05	41.32934	-85.6784	219	4.0	2		2	1											2	1
Webster	5/25/05	41.32955	-85.6792	220	5.0	4		1	1	4										3	2
Webster	5/25/05	41.32885	-85.6786	221	4.0	1			1			1								2	2
Webster	5/25/05	41.32817	-85.6781	222	4.0	2		1	1										1	3	2
Webster	5/25/05	41.32766	-85.6775	223	3.0	1	1	1												2	0
Webster	5/25/05	41.32757	-85.6765	224	9.0	1	1		1											2	1
Webster	5/25/05	41.32725	-85.6776	225	8.0	3		1	2						1					3	2
Webster	5/25/05	41.32731	-85.6787	226	8.0	5	1		1		5									3	2
Webster	5/25/05	41.3279	-85.6799	227	7.0	4			4		1									2	2
Webster	5/25/05	41.32872	-85.6808	228	7.0	5			5											1	1
Webster	5/25/05	41.32945	-85.6815	229	6.0	3		1	2											2	1
Webster	5/25/05	41.32958	-85.6822	230	6.0	5		5											1	2	1
Webster	5/25/05	41.32938	-85.6831	231	7.0	1		1	1							1				3	2
Webster	5/25/05	41.32883	-85.6837	232	6.0	3			2						1					2	2
Webster	5/25/05	41.32806	-85.6845	233	7.0	5	5	1												2	0
Webster	5/25/05	41.32739	-85.6844	234	14.0															0	0
Webster	5/25/05	41.32741	-85.6856	235	6.0	5		5	2		1									3	2
Webster	5/25/05	41.3279	-85.6865	236	3.0	5		5												1	0
Webster	5/25/05	41.32859	-85.6854	237	10.0	1	1	1	1						1					4	2
Webster	5/25/05	41.32904	-85.6844	238	8.0	5		5	3											2	1
Webster	5/25/05	41.32973	-85.6836	239	13.0	1	1		1											2	1
Webster	5/25/05	41.33016	-85.683	240	9.0	5	2	5												2	0
Webster	5/25/05	41.33101	-85.6835	241	8.0	3	2		1											2	1
Webster	5/25/05	41.33136	-85.6846	242	11.0															0	0
Webster	5/25/05	41.33162	-85.6859	243	10.0	5			5											1	1

Species Codes	
BIBE	Bur marigold
CEDE4	Coontail
CH?AR	Chara
ELCA7	Elodea
LEMN	Duckweeds
MYHE	Broadleaf watermilfoil
MYSI	Northern watermilfoil
MYSP2	Eurasian watermilfoil
MYVE	Whorled watermilfoil
NAFL	Slender naiad
NAGU	Southern waternymph
NAMA	Spiny naiad
NAMI	Brittle waternymph
NELU	American lotus
NI?TE	Nitella
NOAQVG	No aquatic vegetation
NULU	Yellow pond lily
NYTU	White water lily
POAM	Large-leaf pondweed
POCR3	Curly-leaf pondweed
POFO3	Leafy pondweed
POGR8	Variable pondweed
POIL	Illinois pondweed
PONO2	American pondweed
POPE6	Sago pondweed
POPR5	White-stemmed pondweed
POPU7	Small pondweed
PORI2	Richardson's pondweed
POZO	Flat-stemmed pondweed
UTMA	Common bladderwort
VAAM3	Wild celery, eel grass
WO?LF	Watermeal
ZAPA	Horned pondweed
ZODU	Water stargrass
Count	34

AQUATIC CONTROL

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	POPE6	VAAM3	ELCA7	POZO	POAM	MYSI	ZODU	ZAPA	SpeNum	NatSpeNum
Webster	5/25/05	41.33158	-85.6871	244	8.0	1	1		1											2	1
Webster	5/25/05	41.33149	-85.6885	245	7.0	5		5												1	0
Webster	5/25/05	41.33085	-85.6888	246	13.0	1	1													1	0
Webster	5/25/05	41.33034	-85.6892	247	6.0	2		2							1					2	1
Webster	5/25/05	41.32979	-85.6893	248	9.0	1			1						1					2	2
Webster	5/25/05	41.32998	-85.6904	249	6.0	2		2						1	1					3	2
Webster	5/25/05	41.33011	-85.6914	250	7.0	5	1	5	1											3	1
Webster	5/25/05	41.3309	-85.6914	251	2.0	5				5				2						2	2
Webster	5/25/05	41.33092	-85.6921	252	4.0															0	0
Webster	5/25/05	41.33153	-85.6926	253	2.0	5			1		5			1						3	3
Webster	5/25/05	41.33084	-85.6931	254	4.0	5		5												1	0
Webster	5/25/05	41.33028	-85.6929	255	6.0	1		1												1	0
Webster	5/25/05	41.33079	-85.6938	256	4.0	5		5												1	0
Webster	5/25/05	41.33161	-85.6954	257	3.0															0	0
Webster	5/25/05	41.33041	-85.6941	258	5.0	5				5	5									2	2
Webster	5/25/05	41.32972	-85.6944	259	5.0	5				5										1	1
Webster	5/25/05	41.32947	-85.6953	260	4.0	5				5										1	1
Webster	5/25/05	41.32865	-85.695	261	6.0	1		1		1										2	1
Webster	5/25/05	41.32813	-85.6945	262	6.0															0	0
Webster	5/25/05	41.32753	-85.6929	263	6.0	2	2													1	0
Webster	5/25/05	41.3268	-85.6921	264	7.0	5		5												1	0
Webster	5/25/05	41.32774	-85.6915	265	8.0	5	1	5			1									3	1
Webster	5/25/05	41.32857	-85.6908	266	9.0	1		1											1	2	1
Webster	5/25/05	41.32727	-85.6916	267	8.0	3	1	3				1			1					4	2
Webster	5/25/05	41.32645	-85.6927	268	6.0	5		5												1	0
Webster	5/25/05	41.32667	-85.6939	269	5.0	2	1	1		1									1	4	2
Webster	5/25/05	41.32602	-85.694	270	6.0	5		3		1							5			3	2
Webster	5/25/05	41.32517	-85.6939	271	4.0	5				5							1			2	2
Webster	5/25/05	41.32554	-85.6929	272	6.0	5		5												1	0
Webster	5/25/05	41.32484	-85.6927	273	6.0	3		3				1								2	1
Webster	5/25/05	41.32403	-85.6927	274	4.0	5		5									1			2	1
Webster	5/25/05	41.32359	-85.6924	275	5.0	1										1				1	1
Webster	5/25/05	41.32337	-85.6917	276	4.0	1				1				1						2	2
Webster	5/25/05	41.32317	-85.6926	277	4.0	1		1												1	0
Webster	5/25/05	41.32273	-85.6927	278	5.0	2	1	1							1					3	1
Webster	5/25/05	41.32213	-85.6926	279	4.0	3		1		3										2	1
Webster	5/25/05	41.32255	-85.6918	280	5.0	1		1												1	0
Webster	5/25/05	41.32192	-85.6921	281	5.0	1		1												1	0
Webster	5/25/05	41.3214	-85.6913	282	3.0	5				5							1			2	2
Webster	5/25/05	41.32162	-85.69	283	4.0	5		2		4										2	1
Webster	5/25/05	41.32215	-85.6889	284	5.0															0	0
Webster	5/25/05	41.32266	-85.6885	285	7.0	5		5	1											2	1
Webster	5/25/05	41.32234	-85.6881	286	7.0	5	1	5											1	3	1
Webster	5/25/05	41.32173	-85.6877	287	7.0	5	1	5	1											3	1
Webster	5/25/05	41.32119	-85.6874	288	5.0	2	1	1												2	0
Webster	5/25/05	41.32061	-85.687	289	6.0	5		5	1											2	1
Webster	5/25/05	41.3201	-85.6873	290	7.0	5	2	5												2	0
Webster	5/25/05	41.31944	-85.6879	291	7.0	2	1	1	2											3	1
Webster	5/25/05	41.31986	-85.6871	292	7.0	5	1	5	1											3	1
Webster	5/25/05	41.3202	-85.686	293	5.0	2		2	1	1					1					4	3
Webster	5/25/05	41.32084	-85.6852	294	6.0	5		5												1	0
Webster	5/25/05	41.32077	-85.6842	295	6.0	5	1	5												2	0
Webster	5/25/05	41.32166	-85.6839	296	8.0	4	1	4												2	0
Webster	5/25/05	41.32147	-85.6833	297	9.0	3	1	2												2	0
Webster	5/25/05	41.32061	-85.6823	298	6.0	4		2	2											2	1
Webster	5/25/05	41.3208	-85.6814	299	7.0	1	1	1												2	0
Webster	5/25/05	41.32136	-85.6804	300	7.0	5			5											1	1
Webster	5/25/05	41.32192	-85.6795	301	8.0	5	1		5											2	1
Webster	5/25/05	41.32238	-85.6791	302	9.0	2	1		2											2	1
Webster	5/25/05	41.32273	-85.6785	303	7.0	5		5	5											2	1
Webster	5/25/05	41.32309	-85.6773	304	6.0	1			1		1									2	2
Webster	5/25/05	41.32335	-85.676	305	7.0															0	0
Webster	5/25/05	41.32317	-85.6751	306	7.0	1		1	1											2	1
Webster	5/25/05	41.32253	-85.675	307	6.0	1			1											1	1
Webster	5/25/05	41.32243	-85.676	308	6.0	1	1													1	0
Webster	5/25/05	41.32196	-85.6764	309	8.0															0	0
Webster	5/25/05	41.32181	-85.6774	310	4.0	5	1	5	1											3	1
Webster	5/25/05	41.32146	-85.678	311	3.0	5	3	3												2	0
Webster	5/25/05	41.3211	-85.6771	312	4.0	5	5	2	1					1						4	2
Webster	5/25/05	41.31952	-85.6761	313	4.0	1	1													1	0
Webster	5/25/05	41.32072	-85.6759	314	2.0	5	5	1	1											3	1
Webster	5/25/05	41.32021	-85.6744	315	4.0	3	1	2	1						1			3		5	3
Webster	5/25/05	41.31935	-85.6737	316	6.0	3	1	1	3											3	1
Webster	5/25/05	41.31907	-85.6727	317	6.0															0	0
Webster	5/25/05	41.31883	-85.6722	318	5.0	1			1											1	1
Webster	5/25/05	41.31843	-85.6728	319	5.0	2			2											1	1
Webster	5/25/05	41.3177	-85.6723	320	5.0	2	2		1											2	1
Webster	5/25/05	41.31772	-85.6715	321	4.0	5	1	5												2	0

Species Codes	
BIBE	Bur marigold
CEDE4	Coontail
CH?AR	Chara
ELCA7	Elodea
LEMN	Duckweeds
MYHE	Broadleaf watermilfoil
MYSI	Northern watermilfoil
MYSP2	Eurasian watermilfoil
MYVE	Whorled watermilfoil
NAFL	Slender naiad
NAGU	Southern waternymph
NAMA	Spiny naiad
NAMI	Brittle waternymph
NELU	American lotus
NI?TE	Nitella
NOAQVG	No aquatic vegetation
NULU	Yellow pond lily
NYTU	White water lily
POAM	Large-leaf pondweed
POCR3	Curly-leaf pondweed
POFO3	Leafy pondweed
POGR8	Variable pondweed
POIL	Illinois pondweed
PONO2	American pondweed
POPE6	Sago pondweed
POPR5	White-stemmed pondweed
POPU7	Small pondweed
PORI2	Richardson's pondweed
POZO	Flat-stemmed pondweed
UTMA	Common bladderwort
VAAM3	Wild celery, eel grass
WO?LF	Watermeal
ZAPA	Horned pondweed
ZODU	Water stargrass
Count	34

AQUATIC CONTROL

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	POPE6	POPU7	ELCA7	POZO	POAM	MYSI	NAMA	ZODU	UTMA	NI?TE	SpeNum	NatSpeNum	Species Codes	
Webster	8/2/05	41.3167	-85.6711	162	7.0	2			2													1	1	BIBE	Bur marigold
Webster	8/2/05	41.31794	-85.6704	163	4.0	1			1													1	1	CEDE4	Coontail
Webster	8/2/05	41.31887	-85.67	164	4.0	2			2													1	1	CH?AR	Chara
Webster	8/2/05	41.31886	-85.6712	165	6.0	5			5													1	1	ELCA7	Elodea
Webster	8/2/05	41.31972	-85.6722	166	4.0	5			5													1	1	LEMN	Duckweeds
Webster	8/2/05	41.31975	-85.673	167	5.0	1			1													1	1	MYHE	Broadleaf watermilfoil
Webster	8/2/05	41.32076	-85.6744	168	3.0	1		1			1	1										3	2	MYSI	Northern watermilfoil
Webster	8/2/05	41.3216	-85.6753	169	6.0	1					1											1	1	MYSP2	Eurasian watermilfoil
Webster	8/2/05	41.32142	-85.6741	170	4.0	1			1													1	1	MYVE	Whorled watermilfoil
Webster	8/2/05	41.32223	-85.6735	171	5.0																	0	0	NAFL	Slender naiad
Webster	8/2/05	41.32316	-85.6727	172	5.0																	0	0	NAGU	Southern waternymph
Webster	8/2/05	41.32418	-85.6728	173	6.0	1			1													1	1	NAMA	Spiny naiad
Webster	8/2/05	41.32444	-85.6719	174	6.0	1			1		1											2	2	NAMI	Brittle waternymph
Webster	8/2/05	41.32537	-85.6718	175	7.0	1					1											1	1	NELU	American lotus
Webster	8/2/05	41.32533	-85.6707	176	3.0	1				1	1											2	2	NI?TE	Nitella
Webster	8/2/05	41.32614	-85.6705	177	6.0	1			1													1	1	NOAQVG	No aquatic vegetation
Webster	8/2/05	41.32656	-85.6692	178	7.0	1			1		1									1		3	3	NULU	Yellow pond lily
Webster	8/2/05	41.32745	-85.6698	179	7.0	2		1	2											1		3	2	NYTU	White water lily
Webster	8/2/05	41.3279	-85.6709	180	7.0	3			3		1	1										3	3	POAM	Large-leaf pondweed
Webster	8/2/05	41.32766	-85.6724	181	4.0	5			1		5											2	2	POCR3	Curly-leaf pondweed
Webster	8/2/05	41.32863	-85.6733	182	6.0	5			2											3		2	2	POFO3	Leafy pondweed
Webster	8/2/05	41.32939	-85.6727	183	8.0	1			1		1											2	2	POGR8	Variable pondweed
Webster	8/2/05	41.32923	-85.6716	184	7.0																	0	0	POIL	Illinois pondweed
Webster	8/2/05	41.32847	-85.6701	185	6.0	1			1													1	1	PONO2	American pondweed
Webster	8/2/05	41.32811	-85.6686	186	7.0	5			2											5		2	2	POPE6	Sago pondweed
Webster	8/2/05	41.32786	-85.6674	187	3.0	2			1			2										2	2	POPR5	White-stemmed pondweed
Webster	8/2/05	41.32728	-85.6668	188	2.0	3			1		2											2	2	POPU7	Small pondweed
Webster	8/2/05	41.32812	-85.6664	189	4.0																	0	0	PORI2	Richardson's pondweed
Webster	8/2/05	41.32874	-85.6662	190	5.0	5	1	1	5			1								2		5	3	POZO	Flat-stemmed pondweed
Webster	8/2/05	41.32963	-85.6662	191	7.0	1			1		1									1		3	3	UTMA	Common bladderwort
Webster	8/2/05	41.33041	-85.666	192	6.0	5			5											1		2	2	VAAM3	Wild celery, eel grass
Webster	8/2/05	41.33094	-85.667	193	7.0																	0	0	WO?LF	Watermeal
Webster	8/2/05	41.33177	-85.6665	194	6.0	5			5						1							2	2	ZAPA	Horned pondweed
Webster	8/2/05	41.33164	-85.6678	195	6.0	1			1											1		2	2	ZODU	Water stargrass
Webster	8/2/05	41.33205	-85.6686	196	5.0	5			5													1	1		
Webster	8/2/05	41.33271	-85.6692	197	5.0	1			1													1	1	Count	34
Webster	8/2/05	41.33339	-85.67	198	4.0	5	1		5													2	1		
Webster	8/2/05	41.33371	-85.6713	199	4.0	1	1	1	1								1					4	2		
Webster	8/2/05	41.33429	-85.6717	200	3.0	5			2	5							1					3	3		
Webster	8/2/05	41.33414	-85.672	201	4.0	3		1	1								2	1				4	3		
Webster	8/2/05	41.33425	-85.6725	202	4.0	2			2			1					1					3	3		
Webster	8/2/05	41.33413	-85.6734	203	4.0	1			1	1												2	2		
Webster	8/2/05	41.33423	-85.6743	204	3.0	5				2								5				2	2		
Webster	8/2/05	41.33368	-85.674	205	5.0	1		1														1	0		
Webster	8/2/05	41.333	-85.6749	206	5.0																	0	0		
Webster	8/2/05	41.33219	-85.6746	207	4.0	1		1		1												2	1		
Webster	8/2/05	41.33159	-85.6738	208	5.0	1				1	1				1					1		4	4		
Webster	8/2/05	41.33054	-85.6741	209	5.0	1		1	1	1	1											4	3		
Webster	8/2/05	41.33009	-85.6735	210	11.0	5			5													1	1		
Webster	8/2/05	41.32951	-85.6738	211	8.0	1			1													1	1		
Webster	8/2/05	41.32989	-85.6748	212	6.0																	0	0		
Webster	8/2/05	41.32997	-85.6759	213	3.0	5				5												1	1		
Webster	8/2/05	41.3293	-85.6754	214	4.0	3			1	3							1					3	3		
Webster	8/2/05	41.32885	-85.6747	215	7.0	1			1													1	1		
Webster	8/2/05	41.32845	-85.6756	216	6.0																	0	0		
Webster	8/2/05	41.32824	-85.6768	217	5.0																	0	0		
Webster	8/2/05	41.32886	-85.6777	218	5.0	1			1								1					2	2		
Webster	8/2/05	41.32934	-85.6784	219	3.0	2	1		1						1		1				1	5	4		
Webster	8/2/05	41.32955	-85.6792	220	4.0	1			1													1	1		
Webster	8/2/05	41.32885	-85.6786	221	4.0	5	1		2			5										3	2		
Webster	8/2/05	41.32817	-85.6781	222	4.0	1			1													1	1		
Webster	8/2/05	41.32766	-85.6775	223	4.0																	0	0		
Webster	8/2/05	41.32757	-85.6765	224	7.0	1			1													1	1		
Webster	8/2/05	41.32725	-85.6776	225	4.0	5					5											1	1		
Webster	8/2/05	41.32731	-85.6787	226	8.0	5			5													1	1		
Webster	8/2/05	41.3279	-85.6799	227	8.0	5			5													1	1		
Webster	8/2/05	41.32872	-85.6808	228	7.0	5			5													1	1		
Webster	8/2/05	41.32945	-85.6815	229	6.0	1			1													1	1		
Webster	8/2/05	41.32958	-85.6822	230	8.0	5					5											1	1		
Webster	8/2/05	41.32938	-85.6831	231	8.0	1					1											1	1		
Webster	8/2/05	41.32883	-85.6837	232	5.0	5			5							1				1		3	3		
Webster	8/2/05	41.32806	-85.6845	233	6.0	5			2		5											2	2		
Webster	8/2/05	41.32739	-85.6844	234	14.0	1							1									1	1		
Webster	8/2/05	41.32741	-85.6856	235	4.0	5					5											1	1		
Webster	8/2/05	41.3279	-85.6865	236	4.0	5		2			3											2	1		
Webster	8/2/05	41.32859	-85.6854	237	10.0	5		1	5		1											3	2		
Webster	8/2/05	41.32904	-85.6844	238	7.0	5			5		1											2	2		
Webster	8/2/05	41.32973	-85.6836	239	12.0	2		1					1		2							3	2		
Webster	8/2/05	41.33016	-85.683	240	9.0	2			2													1	1		
Webster	8/2/05	41.33101	-85.6835	241	8.0	1			1													1	1		
Webster	8/2/05	41.33136	-85.6846	242	10.0	5			5						1							2	2		

AQUATIC CONTROL

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	CH?AR	NAFL	POPE6	POPU7	ELCA7	POZO	POAM	MYSI	NAMA	ZODU	UTMA	NI?TE	SpeNum	NatSpeNum	Species Codes	
Webster	8/2/05	41.33162	-85.6859	243	10.0	5		1	1		1				5				1			5	4	BIBE	Bur marigold
Webster	8/2/05	41.33158	-85.6871	244	9.0	5		1	5						1							3	2	CEDE4	Coontail
Webster	8/2/05	41.33149	-85.6885	245	6.0	1			1													1	1	CH?AR	Chara
Webster	8/2/05	41.33085	-85.6888	246	8.0	1		1	1		1											3	2	ELCA7	Elodea
Webster	8/2/05	41.33034	-85.6892	247	5.0	5		1	5													2	1	LEMN	Duckweeds
Webster	8/2/05	41.32979	-85.6893	248	8.0	5			5		3											2	2	MYHE	Broadleaf watermilfoil
Webster	8/2/05	41.32998	-85.6904	249	5.0	5			1		5				1				1			4	4	MYSI	Northern watermilfoil
Webster	8/2/05	41.33011	-85.6914	250	6.0	1						1										1	1	MYSP2	Eurasian watermilfoil
Webster	8/2/05	41.3309	-85.6914	251	4.0	2		1	1		2											3	2	MYVE	Whorled watermilfoil
Webster	8/2/05	41.33092	-85.6921	252	4.0	1			1				1									2	2	NAFL	Slender naiad
Webster	8/2/05	41.33153	-85.6926	253	3.0	5			1		5	1										3	3	NAGU	Southern waternymph
Webster	8/2/05	41.33084	-85.6931	254	4.0	1					1											1	1	NAMA	Spiny naiad
Webster	8/2/05	41.33028	-85.6929	255	7.0	1		1														1	0	NAMI	Brittle waternymph
Webster	8/2/05	41.33079	-85.6938	256	4.0	1			1													1	1	NELU	American lotus
Webster	8/2/05	41.33161	-85.6954	257	3.0	1			1		1								1		1	3	3	NI?TE	Nitella
Webster	8/2/05	41.33041	-85.6941	258	5.0	3				3												1	1	NOAQVG	No aquatic vegetation
Webster	8/2/05	41.32972	-85.6944	259	4.0	3			1	3		1										3	3	NULU	Yellow pond lily
Webster	8/2/05	41.32947	-85.6953	260	4.0	1				1												1	1	NYTU	White water lily
Webster	8/2/05	41.32865	-85.695	261	13.0	1									1							1	1	POAM	Large-leaf pondweed
Webster	8/2/05	41.32813	-85.6945	262	5.0	1				1												1	1	POCR3	Curly-leaf pondweed
Webster	8/2/05	41.32753	-85.6929	263	3.0	5	1				5											2	1	POFO3	Leafy pondweed
Webster	8/2/05	41.3268	-85.6921	264	7.0	5	1		1						5							3	2	POGR8	Variable pondweed
Webster	8/2/05	41.32774	-85.6915	265	7.0	5		1	5				5		1							4	3	POIL	Illinois pondweed
Webster	8/2/05	41.32857	-85.6908	266	9.0	5			3		5											2	2	PONO2	American pondweed
Webster	8/2/05	41.32727	-85.6916	267	7.0	1						1										1	1	POPE6	Sago pondweed
Webster	8/2/05	41.32645	-85.6927	268	6.0	5			5	5												2	2	POPR5	White-stemmed pondweed
Webster	8/2/05	41.32667	-85.6939	269	6.0	5					5											1	1	POPU7	Small pondweed
Webster	8/2/05	41.32602	-85.694	270	4.0	5			1		5			1								3	3	PORI2	Richardson's pondweed
Webster	8/2/05	41.32517	-85.6939	271	4.0	5			5		5											2	2	POZO	Flat-stemmed pondweed
Webster	8/2/05	41.32554	-85.6929	272	6.0	5		1	5													2	1	UTMA	Common bladderwort
Webster	8/2/05	41.32484	-85.6927	273	6.0	3		1	1		2											3	2	VAAM3	Wild celery, eel grass
Webster	8/2/05	41.32403	-85.6927	274	4.0	4					2	2										2	2	WO?LF	Watermeal
Webster	8/2/05	41.32359	-85.6924	275	5.0	2			1							1						2	2	ZAPA	Horned pondweed
Webster	8/2/05	41.32337	-85.6917	276	6.0	1			1													1	1	ZODU	Water stargrass
Webster	8/2/05	41.32317	-85.6926	277	5.0	2					1					1						2	2		
Webster	8/2/05	41.32273	-85.6927	278	5.0	1										1						1	1	Count	34
Webster	8/2/05	41.32213	-85.6926	279	4.0	5				5												1	1		
Webster	8/2/05	41.32255	-85.6918	280	5.0	2				1	2											2	2		
Webster	8/2/05	41.32192	-85.6921	281	4.0	1						1										1	1		
Webster	8/2/05	41.3214	-85.6913	282	4.0	2				2												1	1		
Webster	8/2/05	41.32162	-85.69	283	4.0	2				2												1	1		
Webster	8/2/05	41.32215	-85.6889	284	6.0	3				3					1							2	2		
Webster	8/2/05	41.32266	-85.6885	285	8.0	3		3	1													2	1		
Webster	8/2/05	41.32234	-85.6881	286	7.0	5	1	1	1	5			1									5	3		
Webster	8/2/05	41.32173	-85.6877	287	6.0	5			5		5											2	2		
Webster	8/2/05	41.32119	-85.6874	288	4.0	5				1	5											2	2		
Webster	8/2/05	41.32061	-85.687	289	8.0	5		1	5						1							3	2		
Webster	8/2/05	41.3201	-85.6873	290	6.0	5			4		5											2	2		
Webster	8/2/05	41.31944	-85.6879	291	7.0	5		1	1		5											3	2		
Webster	8/2/05	41.31986	-85.6871	292	5.0	5		5	5		5											3	2		
Webster	8/2/05	41.3202	-85.686	293	4.0	5	1				5					5	1					4	3		
Webster	8/2/05	41.32084	-85.6852	294	7.0	2		1	1													2	1		
Webster	8/2/05	41.32077	-85.6842	295	6.0	1			1													1	1		
Webster	8/2/05	41.32166	-85.6839	296	9.0	5		1							5							2	1		
Webster	8/2/05	41.32147	-85.6833	297	8.0	5	1								5							2	1		
Webster	8/2/05	41.32061	-85.6823	298	7.0	5		1	3		5											3	2		
Webster	8/2/05	41.3208	-85.6814	299	7.0	4		3	1													2	1		
Webster	8/2/05	41.32136	-85.6804	300	8.0	5		3	5										2			3	2		
Webster	8/2/05	41.32192	-85.6795	301	8.0	5			5													1	1		
Webster	8/2/05	41.32238	-85.6791	302	10.0	5			5													1	1		
Webster	8/2/05	41.32273	-85.6785	303	7.0	3		1	2													2	1		
Webster	8/2/05	41.32309	-85.6773	304	6.0	5			5													1	1		
Webster	8/2/05	41.32335	-85.676	305	7.0	1			1	1												2	2		
Webster	8/2/05	41.32317	-85.6751	306	7.0	1			1													1	1		
Webster	8/2/05	41.32253	-85.675	307	7.0	1					1											1	1		
Webster	8/2/05	41.32243	-85.676	308	6.0																	0	0		
Webster	8/2/05	41.32196	-85.6764	309	4.0																	0	0		
Webster	8/2/05	41.32181	-85.6774	310	4.0	4		1	5													2	1		
Webster	8/2/05	41.32146	-85.678	311	3.0	5			5													1	1		
Webster	8/2/05	41.3211	-85.6771	312	4.0	3			3													1	1		
Webster	8/2/05	41.31952	-85.6761	313	4.0	5			5													1	1		
Webster	8/2/05	41.32072	-85.6759	314	3.0	1			1													1	1		
Webster	8/2/05	41.32021	-85.6744	315	4.0	2			2													1	1		
Webster	8/2/05	41.31935	-85.6737	316	6.0	5			5													1	1		
Webster	8/2/05	41.31907	-85.6727	317	5.0																	0	0		
Webster	8/2/05	41.31883	-85.6722	318	5.0	5			5													1	1		
Webster	8/2/05	41.31843	-85.6728	319	4.0																	0	0		
Webster	8/2/05	41.3177	-85.6723	320	4.0	2			2													1	1		
Webster	8/2/05	41.31772	-85.6715	321	5.0	5			5													1	1		

Backwater Lake

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	SpeNum	NatSpeNum	Species Codes	
Backwater	4/15/05	41.31612	-85.67096	323	5.0	NP				0	0	BIBE	Bur marigold
Backwater	4/15/05	41.31573	-85.67009	324	3.0	NP				0	0	CEDE4	Coontail
Backwater	4/15/05	41.31622	-85.66874	325	5.0	1		1		1	0	CH?AR	Chara
Backwater	4/15/05	41.31666	-85.66793	326	4.0	1		1	1	2	1	ELCA7	Elodea
Backwater	4/15/05	41.31701	-85.66679	327	3.0	2			2	1	1	LEMN	Duckweeds
Backwater	4/15/05	41.31791	-85.66584	328	3.0	1			1	1	1	MYHE	Broadleaf watermilfoil
Backwater	4/15/05	41.31818	-85.6645	329	2.0	NP				0	0	MYSI	Northern watermilfoil
Backwater	4/15/05	41.31846	-85.66342	330	3.0	1			1	1	1	MYSP2	Eurasian watermilfoil
Backwater	4/15/05	41.31785	-85.66315	331	3.0	1			1	1	1	MYVE	Whorled watermilfoil
Backwater	4/15/05	41.31736	-85.66423	332	4.0	2		1	2	2	1	NAFL	Slender naiad
Backwater	4/15/05	41.31692	-85.66536	333	3.0	1			1	1	1	NAGU	Southern waternymph
Backwater	4/15/05	41.31627	-85.66676	334	4.0	1			1	1	1	NAMA	Spiny naiad
Backwater	4/15/05	41.31608	-85.66765	335	5.0	1		1		1	0	NAMI	Brittle waternymph
Backwater	4/15/05	41.31549	-85.66844	336	5.0	1		1		1	0	NELU	American lotus
Backwater	4/15/05	41.31474	-85.66881	337	3.0	NP				0	0	NI?TE	Nitella
Backwater	4/15/05	41.31523	-85.66734	338	5.0	NP				0	0	NOAQVG	No aquatic vegetation
Backwater	4/15/05	41.31555	-85.66614	339	5.0	1	1			1	0	NULU	Yellow pond lily
Backwater	4/15/05	41.31606	-85.66475	340	3.0	1	1			1	0	NYTU	White water lily
Backwater	4/15/05	41.31648	-85.66374	341	2.0	1			1	1	1	POAM	Large-leaf pondweed
Backwater	4/15/05	41.31542	-85.66486	342	3.0	1	1			1	0	POCR3	Curly-leaf pondweed
Backwater	4/15/05	41.31474	-85.66553	343	3.0	1			1	1	1	POFO3	Leafy pondweed
Backwater	4/15/05	41.31411	-85.66659	344	4.0	NP				0	0	POGR8	Variable pondweed
Backwater	4/15/05	41.31392	-85.66771	345	2.0	NP				0	0	POIL	Illinois pondweed
Backwater	4/15/05	41.31357	-85.66676	346	2.0	1			1	1	1	PONO2	American pondweed
Backwater	4/15/05	41.31415	-85.66575	347	4.0	1		1	1	2	1	POPE6	Sago pondweed
Backwater	4/15/05	41.3148	-85.66455	348	3.0	1	1	1		2	0	POPR5	White-stemmed pondweed
Backwater	4/15/05	41.31549	-85.66365	349	3.0	1	1	1	1	3	1	POPU7	Small pondweed
Backwater	4/15/05	41.31547	-85.66263	350	2.0	3			3	1	1	PORI2	Richardson's pondweed
Backwater	4/15/05	41.31475	-85.66301	351	3.0	3	3	1		2	0	POZO	Flat-stemmed pondweed
Backwater	4/15/05	41.31417	-85.66383	352	2.0	2	2		1	2	1	UTMA	Common bladderwort
Backwater	4/15/05	41.31364	-85.66438	353	3.0	1		1		1	0	VAAM3	Wild celery, eel grass
Backwater	4/15/05	41.31336	-85.66531	354	2.0	1			1	1	1	WO?LF	Watermeal
Backwater	4/15/05	41.31362	-85.66338	355	3.0	3			1	1	1	ZAPA	Horned pondweed
Backwater	4/15/05	41.31382	-85.66225	356	3.0	5	5		1	2	1	ZODU	Water stargrass
Backwater	4/15/05	41.3144	-85.66126	357	2.0	5	1	1	5	3	1		
Backwater	4/15/05	41.31374	-85.66066	358	2.0	4	1		4	2	1	Count	34
Backwater	4/15/05	41.31301	-85.66107	359	3.0	2	1		2	2	1		
Backwater	4/15/05	41.31216	-85.66097	360	3.0	3			3	1	1		
Backwater	4/15/05	41.31128	-85.6607	361	2.0	2	1		2	2	1		
Backwater	4/15/05	41.31019	-85.6606	362	3.0	5			5	1	1		
Backwater	4/15/05	41.30891	-85.66002	363	4.0	5			5	1	1		
Backwater	4/15/05	41.30761	-85.65996	364	2.0	5			5	1	1		

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	ZODU	SpeNum	NatSpeNum	Species Codes	
Backwater	5/25/05	41.31612	-85.67096	323	5.0	1					0	0	BIBE	Bur marigold
Backwater	5/25/05	41.31573	-85.67009	324	3.0	5		5	1		2	1	CEDE4	Coontail
Backwater	5/25/05	41.31622	-85.66874	325	6.0	1			1		1	1	CH?AR	Chara
Backwater	5/25/05	41.31666	-85.66793	326	5.0	1			1		1	1	ELCA7	Elodea
Backwater	5/25/05	41.31701	-85.66679	327	3.0	1	1		1		2	1	LEMN	Duckweeds
Backwater	5/25/05	41.31791	-85.66584	328	3.0	1			1		1	1	MYHE	Broadleaf watermilfoil
Backwater	5/25/05	41.31818	-85.6645	329	2.0	1			1		1	1	MYSI	Northern watermilfoil
Backwater	5/25/05	41.31846	-85.66342	330	4.0	1			1		1	1	MYSP2	Eurasian watermilfoil
Backwater	5/25/05	41.31785	-85.66315	331	2.0	1			1		1	1	MYVE	Whorled watermilfoil
Backwater	5/25/05	41.31736	-85.66423	332	6.0	1			1		1	1	NAFL	Slender naiad
Backwater	5/25/05	41.31692	-85.66536	333	4.0	1	1		1		2	1	NAGU	Southern waternymph
Backwater	5/25/05	41.31627	-85.66676	334	5.0	0					0	0	NAMA	Spiny naiad
Backwater	5/25/05	41.31608	-85.66765	335	6.0	1			1		1	1	NAMI	Brittle waternymph
Backwater	5/25/05	41.31549	-85.66844	336	6.0	1		1	1		2	1	NELU	American lotus
Backwater	5/25/05	41.31474	-85.66881	337	6.0	1		1	1		2	1	NI?TE	Nitella
Backwater	5/25/05	41.31523	-85.66734	338	6.0	0					0	0	NOAQVG	No aquatic vegetation
Backwater	5/25/05	41.31555	-85.66614	339	6.0	1		1			1	0	NULU	Yellow pond lily
Backwater	5/25/05	41.31606	-85.66475	340	5.0	1	1			1	2	1	NYTU	White water lily
Backwater	5/25/05	41.31648	-85.66374	341	3.0	5			5		1	1	POAM	Large-leaf pondweed
Backwater	5/25/05	41.31542	-85.66486	342	4.0	1	1	1			2	0	POCR3	Curly-leaf pondweed
Backwater	5/25/05	41.31474	-85.66553	343	5.0	2	1	2	2		3	1	POFO3	Leafy pondweed
Backwater	5/25/05	41.31411	-85.66659	344	5.0	1		1			1	0	POGR8	Variable pondweed
Backwater	5/25/05	41.31392	-85.66771	345	3.0	0					0	0	POIL	Illinois pondweed
Backwater	5/25/05	41.31357	-85.66676	346	3.0	1			1		1	1	PONO2	American pondweed
Backwater	5/25/05	41.31415	-85.66575	347	3.0	5		3	1		2	1	POPE6	Sago pondweed
Backwater	5/25/05	41.3148	-85.66455	348	3.0	2		1	1		2	1	POPR5	White-stemmed pondweed
Backwater	5/25/05	41.31549	-85.66365	349	3.0	5	5	2	1		3	1	POPU7	Small pondweed
Backwater	5/25/05	41.31547	-85.66263	350	3.0	2	2		1		2	1	PORI2	Richardson's pondweed
Backwater	5/25/05	41.31475	-85.66301	351	5.0	5	5	1	1		3	1	POZO	Flat-stemmed pondweed
Backwater	5/25/05	41.31417	-85.66383	352	3.0	4	3	1			2	0	UTMA	Common bladderwort
Backwater	5/25/05	41.31364	-85.66438	353	3.0	1		1	1		2	1	VAAM3	Wild celery, eel grass
Backwater	5/25/05	41.31336	-85.66531	354	5.0	3			3		1	1	WO?LF	Watermeal
Backwater	5/25/05	41.31362	-85.66338	355	4.0	1			1		1	1	ZAPA	Horned pondweed
Backwater	5/25/05	41.31382	-85.66225	356	3.0	5	5		2		2	1	ZODU	Water stargrass
Backwater	5/25/05	41.3144	-85.66126	357	3.0	5	5	1			2	0		
Backwater	5/25/05	41.31374	-85.66066	358	3.0	5	5	2	2		3	1	Count	34
Backwater	5/25/05	41.31301	-85.66107	359	2.0	5	5	2	1		3	1		
Backwater	5/25/05	41.31216	-85.66097	360	2.0	1		1	1		2	1		
Backwater	5/25/05	41.31128	-85.6607	361	3.0	1			1		1	1		
Backwater	5/25/05	41.31019	-85.6606	362	5.0	5			5		1	1		
Backwater	5/25/05	41.30891	-85.66002	363	4.0	5			5		1	1		
Backwater	5/25/05	41.30761	-85.65996	364	3.0	5			5		1	1		

Lake	Date	Latitude	Longitude	Site	Depth	RAKE	MYSP2	POCR3	CEDE4	NAFL	POPE6	SpeNum	NatSpeNum	Species Codes	
Backwater Lake	8/2/05	41.31612	-85.671	323	5.0	1			1	1		2	2	BIBE	Bur marigold
Backwater Lake	8/2/05	41.31573	-85.6701	324	5.0	1			1			1	1	CEDE4	Coontail
Backwater Lake	8/2/05	41.31622	-85.6687	325	5.0	4	2		2			2	1	CH?AR	Chara
Backwater Lake	8/2/05	41.31666	-85.6679	326	4.0	5			5			1	1	ELCA7	Elodea
Backwater Lake	8/2/05	41.31701	-85.6668	327	3.0	5			5			1	1	LEMN	Duckweeds
Backwater Lake	8/2/05	41.31791	-85.6658	328	4.0	2			2			1	1	MYHE	Broadleaf watermilfoil
Backwater Lake	8/2/05	41.31818	-85.6645	329	3.0	1			1			1	1	MYSI	Northern watermilfoil
Backwater Lake	8/2/05	41.31846	-85.6634	330	3.0	1			1			1	1	MYSP2	Eurasian watermilfoil
Backwater Lake	8/2/05	41.31785	-85.6631	331	2.0	2			2			1	1	MYVE	Whorled watermilfoil
Backwater Lake	8/2/05	41.31736	-85.6642	332	4.0	1			1			1	1	NAFL	Slender naiad
Backwater Lake	8/2/05	41.31692	-85.6654	333	4.0	3			3		1	2	2	NAGU	Southern waternymph
Backwater Lake	8/2/05	41.31627	-85.6668	334	5.0	5			4		1	2	2	NAMA	Spiny naiad
Backwater Lake	8/2/05	41.31608	-85.6676	335	6.0	2	1		2			2	1	NAMI	Brittle waternymph
Backwater Lake	8/2/05	41.31549	-85.6684	336	6.0	1			1			1	1	NELU	American lotus
Backwater Lake	8/2/05	41.31474	-85.6688	337	4.0	1			1			1	1	NI?TE	Nitella
Backwater Lake	8/2/05	41.31523	-85.6673	338	6.0	1			1			1	1	NOAQVG	No aquatic vegetation
Backwater Lake	8/2/05	41.31555	-85.6661	339	5.0	5	1	1	2		3	4	2	NULU	Yellow pond lily
Backwater Lake	8/2/05	41.31606	-85.6647	340	4.0	5	1		5			2	1	NYTU	White water lily
Backwater Lake	8/2/05	41.31648	-85.6637	341	3.0	5			5			1	1	POAM	Large-leaf pondweed
Backwater Lake	8/2/05	41.31542	-85.6649	342	4.0	5	2	1	3			3	1	POCR3	Curly-leaf pondweed
Backwater Lake	8/2/05	41.31474	-85.6655	343	4.0	4	2		2			2	1	POFO3	Leafy pondweed
Backwater Lake	8/2/05	41.31411	-85.6666	344	5.0	4			4			1	1	POGR8	Variable pondweed
Backwater Lake	8/2/05	41.31392	-85.6677	345	4.0	1			1			1	1	POIL	Illinois pondweed
Backwater Lake	8/2/05	41.31357	-85.6668	346	4.0	4			4			1	1	PONO2	American pondweed
Backwater Lake	8/2/05	41.31415	-85.6657	347	4.0	3	1	1	3			3	1	POPE6	Sago pondweed
Backwater Lake	8/2/05	41.3148	-85.6646	348	3.0	5		1	5			2	1	POPR5	White-stemmed pondweed
Backwater Lake	8/2/05	41.31549	-85.6637	349	4.0	5	2		5			2	1	POPU7	Small pondweed
Backwater Lake	8/2/05	41.31547	-85.6626	350	2.0	3	1		2			2	1	PORI2	Richardson's pondweed
Backwater Lake	8/2/05	41.31475	-85.663	351	4.0	5	3		5			2	1	POZO	Flat-stemmed pondweed
Backwater Lake	8/2/05	41.31417	-85.6638	352	3.0	2			2			1	1	UTMA	Common bladderwort
Backwater Lake	8/2/05	41.31364	-85.6644	353	4.0	4			4			1	1	VAAM3	Wild celery, eel grass
Backwater Lake	8/2/05	41.31336	-85.6653	354	3.0	5	1		5			2	1	WO?LF	Watermeal
Backwater Lake	8/2/05	41.31362	-85.6634	355	5.0	5			5			1	1	ZAPA	Horned pondweed
Backwater Lake	8/2/05	41.31382	-85.6623	356	4.0	5			5			1	1	ZODU	Water stargrass
Backwater Lake	8/2/05	41.3144	-85.6613	357	3.0	5	5					1	0		
Backwater Lake	8/2/05	41.31374	-85.6607	358	2.0	5			5			1	1	Count	34
Backwater Lake	8/2/05	41.31301	-85.6611	359	3.0	5	3		5			2	1		
Backwater Lake	8/2/05	41.31216	-85.661	360	3.0	5	1		5			3	2		
Backwater Lake	8/2/05	41.31128	-85.6607	361	3.0	5			5			2	2		
Backwater Lake	8/2/05	41.31019	-85.6606	362	4.0	4			4			1	1		
Backwater Lake	8/2/05	41.30891	-85.66	363	4.0	5			5			1	1		
Backwater Lake	8/2/05	41.30761	-85.66	364	4.0	2			2			1	1		

2006 Vegetation Control Permits
Webster Lake

APPLICATION FOR AQUATIC VEGETATION CONTROL PERMIT
State Form 26727 (R / 11-03)
Approved State Board of Accounts 1987
[ ] Whole Lake [X] Multiple Treatment Areas
Check type of permit

INSTRUCTIONS: Please print or type information

FOR OFFICE USE ONLY
License No.
Date Issued
Lake County

Return to: Page 1 of 6
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Commercial License Clerk
402 West Washington Street, Room W273
Indianapolis, IN 46204

FEE: $5.00

Applicant's Name	Lake Assoc. Name	
Webster Lake Conservation Association	Webster Lake Conservation Association	
Rural Route or Street: 85 EMS W19		Phone Number: 574-372-7291
City and State: North Webster, IN		ZIP Code: 46555
Certified Applicator (if applicable)	Company or Inc. Name	Certification Number
Rural Route or Street		Phone Number
City and State		ZIP Code

Lake (One application per lake)	Nearest Town	County
Webster Lake	North Webster	Kosciusko
Does water flow into a water supply	[ ] Yes	[X] No

Please complete one section for *EACH* treatment area. Attach lake map showing treatment area and denote location of any water supply intake.

Treatment Area # 1	LAT/LONG or UTM's: Center of bed @ N41.32367 W85.67219		
Total acres to be controlled: 2.5	Proposed shoreline treatment length (ft): 2300	Perpendicular distance from shoreline (ft): 50	
Maximum Depth of Treatment (ft): 8	Expected date(s) of treatment(s): June 13 (subject to change due to weather or plant growth)		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique

Plant survey method: [X] Rake [X] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	X	20
Curlyleaf pondweed	x	20
Eurasian watermilfoil	x	20
Chara	x	5
Flatstem Pondweed	x	10
Naiad	X	20
Largeleaf pondweed		3
Water Stargrass		2

Page 2 of 6

Treatment Area #	2	LAT/LONG or UTM's	Center of Bed at N41.32786 W85.67519		
Total acres to be controlled	4.6	Proposed shoreline treatment length (ft)	4000	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	13-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	x	20
Curlyleaf pondweed	x	20
Eurasian watermilfoil	x	20
Largeleaf pondweed		5
Flatstem pondweed	x	5
Naiad	x	20
Chara		5
Water Stargrass		5

Treatment Area #	3	LAT/LONG or UTM's	Center of Bed @ N41.32842 W85.68379		
Total acres to be controlled	1.4	Proposed shoreline treatment length (ft)	1204	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	1-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward & Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	x	20
Eurasian watermilfoil	x	10
Small pondweed	x	10
Flatstem pondweed	x	10
Common naiad	x	5
Duckweed	x	5
Watermeal	x	3
Water Stargrass		2

Treatment Area #	4	LAT/LONG or UTM's	Center of Bed at N41.33127 W85.68379		
Total acres to be controlled	3.25	Proposed shoreline treatment length (ft)	2854	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	13-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Curlyleaf pondweed	x	30
Naiad	x	20
Coontail	x	15
Flatstem pondweed	x	10
Eurasian watermilfoil	x	10
Duckweed	x	5
Watermeal	x	5
Horned Pondweed		5

Treatment Area #	5	LAT/LONG or UTM's	Center of Bed @ N41.32565 W85.69400		
Total acres to be controlled	12.15	Proposed shoreline treatment length (ft)	10600	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	13-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward & Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Curlyleaf pondweed	x	40
Coontail	x	15
Eurasian watermilfoil	x	10
Small pondweed	x	5
Horned pondweed	x	5
Chara	x	10
Flatstem pondweed	x	5
Spatterdock		5
White water lily		5

Page 4 of 6

Treatment Area #	6	LAT/LONG or UTM's	Center of Bed at N41.32041 W85.68114		
Total acres to be controlled	3.07	Proposed shoreline treatment length (ft)	2679	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	13-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Curlyleaf pondweed	x	45
Coontail	x	20
Flatstem pondweed	x	15
Naiad	x	10
Largeleaf pondweed		5
Eurasian watermilfoil	x	5

Treatment Area #	7	LAT/LONG or UTM's	Center of Bed @ N41.31094 W85.67394		
Total acres to be controlled	11.25	Proposed shoreline treatment length (ft)	9802	Perpendicular distance from shoreline (ft)	50
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	13-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward & Nautique

Plant survey method: [X] Rake [x] Visual [ ] Other (specify) Survey Data From May, 2005 Tier II

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	x	20
Eurasian watermilfoil	x	15
Spatterdock		15
Curlyleaf pondweed	x	10
Duckweed	x	5
Watermeal	x	5
Flatstem pondweed	x	3
Sago pondweed	x	2
Largeleaf pondweed		5
Naiad	X	20

Page 5 of 6

Treatment Area # 8	LAT/LONG or UTM's Treat EWM and CLP wher it occurs (determine following survey)	
Total acres to be controlled	Proposed shoreline treatment length (ft)	Perpendicular distance from shoreline (ft)
Maximum Depth of Treatment (ft)	Expected date(s) of treatment(s) Curlyleaf April 19 and EWM June 1	

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Aquathol K for early curlyleaf & Renovate or 2,4-D for Eurasian watermilfoil where it occurs.

Plant survey method: [X] Rake [X] Visual [ ] Other (specify) Overall Tier II Data From April 2005

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Curlyleaf Pondweed	X	40
Eurasian Watermilfoil	X	35
Coontail		15
Chara		5
Naiad		3
Elodea		1
Flatstem Pondweed		1

INSTRUCTIONS: Whoever treats the lake fills in "Applicant's Signature" unless they are a professional. If they are a professional company who specializes in lake treatment, they should sign on the "Certified Applicant" line.

Applicant Signature	Date
Certified Applicant's Signature	Date

FOR OFFICE ONLY

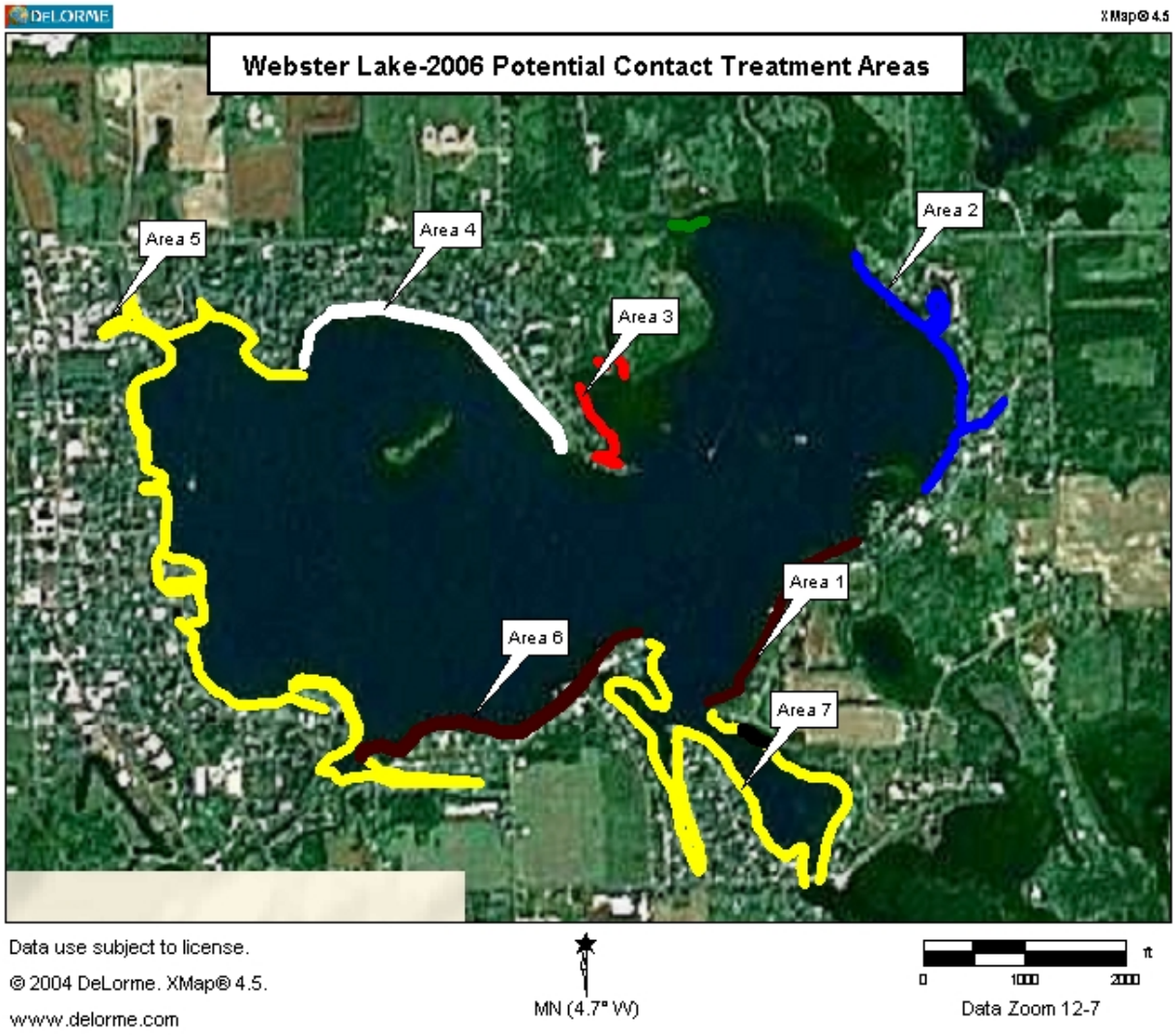
[ ] Approved [ ] Disapproved	Fisheries Staff Specialist
[ ] Approved [ ] Disapproved	Environmental Staff Specialist

Mail check or money order in the amount of $5.00 to:

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
COMMERCIAL LICENSE CLERK
402 WEST WASHINGTON STREET ROOM W273
INDIANAPOLIS, IN 46204

AQUATIC CONTROL

Webster Lake Vegetation Control Permit Map (Page 6 of Permit)



Backwater Lake

APPLICATION FOR AQUATIC VEGETATION CONTROL PERMIT
State Form 26727 (R / 11-03)
Approved State Board of Accounts 1987
☐ Whole Lake ☐ Multiple Treatment Areas
Check type of permit
INSTRUCTIONS: Please print or type information

FOR OFFICE USE ONLY
License No.
Date Issued
Lake County

Return to: Page 1 of 4
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Commercial License Clerk
402 West Washington Street, Room W273
Indianapolis, IN 46204

FEE: $5.00

Applicant's Name	Lake Assoc. Name	
Aquatic Conrol Inc.	Milfoil treatment for Webster Lake Conservation Ass./Contact treatment for Backwater Lake Association	
Rural Route or Street		Phone Number
418 W. State Rd. 258		812-497-2410
City and State		ZIP Code
Seymour, IN		47274
Certified Applicator (if applicable)	Company or Inc. Name	Certification Number
Nathan Long/David Isaacs	Aquatic Control	38005/15824
Rural Route or Street		Phone Number
418 W. State Rd. 258		812-497-2410
City and State		ZIP Code
Seymour, IN		47274

Lake (One application per lake)	Nearest Town	County
Backwater Lake	North Webster	Kosciusko
Does water flow into a water supply		☒ Yes ☐ No

Please complete one section for *EACH* treatment area. Attach lake map showing treatment area and denote location of any water supply intake.

Treatment Area #	1	LAT/LONG or UTM's	Whole lake search and eliminate Eurasian watermilfoil
Total acres to be controlled	204	Proposed shoreline treatment length (ft)	Perpendicular distance from shoreline (ft)
Maximum Depth of Treatment (ft)	8	Expected date(s) of treatment(s)	1-Jun

Treatment method: ☐ Chemical ☐ Physical ☐ Biological Control ☐ Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Treat Eurasian watermilfoil with Renovate herbicide where it appears

Plant survey method: ☒ Rake ☒ Visual ☐ Other (specify)

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail		50
Curlyleaf Pondweed		10
Eurasian watermilfoil	X	10
Spatterdock		10
White waterlilly		10
Nitella spp.		10

Page 2 of 4

Treatment Area #	2	LAT/LONG or UTM's	Center of bed at N41.31430 W85.66890	
Total acres to be controlled	4	Proposed shoreline treatment length (ft)	2050	Perpendicular distance from shoreline (ft) 75
Maximum Depth of Treatment (ft)	5	Expected date(s) of treatment(s)	1-Jun	

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and nautique will be used to control vegetation near docks and in boat lanes

Plant survey method: [X] Rake [X] Visual [ ] Other (specify)

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	x	50
Eurasian watermilfoil	x	10
Curlyleaf pondweed	x	10
Duckweed	x	10
Watermeal	x	10
Spatterdock		10

Treatment Area #	3	LAT/LONG or UTM's	Center of bed at N41.3186 W85.66890	
Total acres to be controlled	2	Proposed shoreline treatment length (ft)	1068	Perpendicular distance from shoreline (ft) 75
Maximum Depth of Treatment (ft)	5	Expected date(s) of treatment(s)	1-Jun	

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique will be used to control vegetation in boating lane and around docks

Plant survey method: [X] Rake [X] Visual [ ] Other (specify)

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	X	40
Eurasian watermilfoil	x	10
Curlyleaf pondweed	x	20
Spatterdock		10
Duckweed	x	10
Watermeal	x	10

Page 3 of 4

Treatment Area # 4	LAT/LONG or UTM's Center of bed at N41.31757 W85.66218		
Total acres to be controlled 1	Proposed shoreline treatment length (ft) 570	Perpendicular distance from shoreline (ft) 50-75	
Maximum Depth of Treatment (ft) 4	Expected date(s) of treatment(s) 1-Jun		

Treatment method: [X] Chemical [ ] Physical [ ] Biological Control [ ] Mechanical

Based on treatment method, describe chemical used, method of physical or mechanical control and disposal area, or the species and stocking rate for biological control. Reward and Nautique

Plant survey method: [X] Rake [X] Visual [ ] Other (specify)

Aquatic Plant Name	Check if Target Species	Relative Abundance % of Community
Coontail	x	40
Curlyleaf pondweed	x	20
Eurasian Watermilfoil	x	10
Spatterdock		15
Duckweed	x	5
Watermeal	x	5
White pond lily		5

INSTRUCTIONS: Whoever treats the lake fills in "Applicant's Signature" unless they are a professional. If they are a professional company who specializes in lake treatment, they should sign on the "Certified Applicant" line.

Applicant Signature	Date
Certified Applicant's Signature	Date

FOR OFFICE ONLY

[ ] Approved [ ] Disapproved	Fisheries Staff Specialist
[ ] Approved [ ] Disapproved	Environmental Staff Specialist

Mail check or money order in the amount of $5.00 to:

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
COMMERCIAL LICENSE CLERK
402 WEST WASHINGTON STREET ROOM W273
INDIANAPOLIS, IN 46204

AQUATIC CONTROL

Backwater Lake Vegetation Control Permit Map (Page 4 of Permit)